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MONTHLY PROGRESS REPORT No. 7
for the period September 1-30, 1976
to
ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

Colorado C-b Tract

TN
859
.C64
C3758
no.7

aeromet inc.
P.O. BOX FF NORMAN, OKLAHOMA 73069
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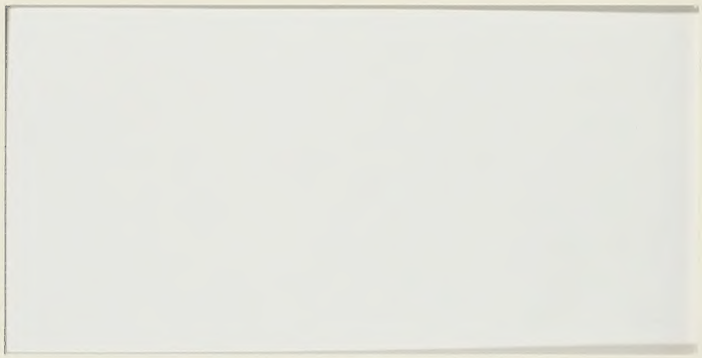

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MONTHLY PROGRESS REPORT No. 7

for the period September 1-30, 1976

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

1860 Lincoln St., Suite 900

Denver, CO 80203

Contract No. 68-01-1946

by

Aeromet, Inc.

Box FF

Norman, OK 73070

Colorado Cb Tract

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1.0 INTRODUCTION

Low level temperature and wind data were collected for September, 1976 at Casper, Wyoming; the Shell Oil Co. Colorado Cb Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville, Utah; and Rock Springs, Wyoming. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made ½ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built in Rustrak strip chart recorder and the temperature was recorded within the range from -50 to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into six parts, one corresponding to each of the six field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 . . . . The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

2.0 DATA SUMMARY

2.1 Colorado Cb Tract Field Summary

Mr. Chuck Bergonzini agreed to conduct the balloon observations after 13 September. The only stipulation was that the month of October he could not promise very good data recovery because of his work on the Tract.

A routine inspection of the Colorado Cb Tract field site was conducted during the month of September. A new method of tuning the receiver to the temperature sonde frequency was tested satisfactorily. Henceforth, there should be fewer number of intervals with interpolated temperature data.

The observers attempted 73% of the scheduled pilot balloon launches resulting in 73% recovery of the temperature data and 50% recovery of the wind data. A 23% loss in wind data was due to poor weather conditions.

2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release ½ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthognal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤ 2
B	-1.9 - -1.7	≤ 5
C	-1.7 - -1.5	≤ 6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤ 5
F	>1.5	≤ 3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

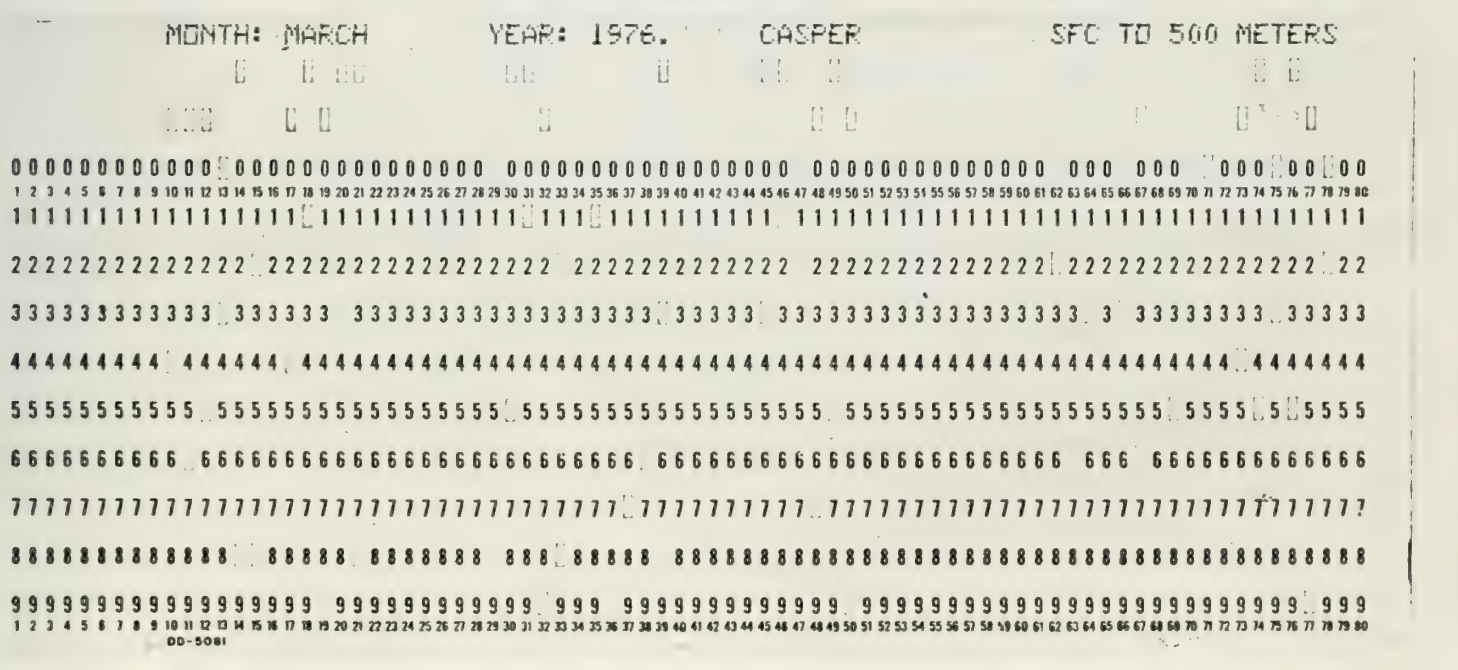
if the $\Delta T/100m$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

3.2 Punched Output

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the v-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,



and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. Number
Casper, Wyoming	1
Colorado CB Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6

The month and season number codes are as follows.

MONTH	1-12
SEASON	13=DJF
	14=MAM
	15=JJA
	16=SON
ANNUAL	17

PILOT BALLOON SUMMARY
Colorado CB Tract
September, 1976

September 1	0630	
	1200	
September 3	0630	
	1300	
September 5	MORN, AFTN	No observations received.
September 7	0700	Balloon lost in clouds after 10 1/2 minutes.
	1200	Balloon lost in clouds and rain after 9 1/2 minutes. The temperature data were interpolated over the interval from 1 3/4 to 5 3/4 minutes.
September 9	0700	
	1200	
September 11	MORN, AFTN	No observations received.
September 13	MORN, AFTN	No observations received.
September 15	0610	Balloon lost in clouds after 6 minutes.
	1300	Temperature readings lost after 2 1/2 minutes due to excessive noise.

PILOT BALLOON SUMMARY
Colorado CB Tract
September, 1976

September 17	0830	Temperature values interpolated over the interval from 1 3/4 to 9 1/4 minutes.
	1445	Temperature values interpolated over the interval from 4 3/4 to 10 minutes.
September 19	MORN AFTN	No observations received.
September 21	0645	Balloon could not be tracked due to fog.
	1230	
September 23	0600	Balloon could not be tracked due to rain.
	1300	No wind observations due to rain.
September 25	0615	No wind observations due to low clouds.
	1237	No wind observations due to rain and clouds.
September 27	0700	No wind observations due to fog and misty rain. Temperature values were interpolated over the interval from 3 1/2 to 5 3/4 minutes.
	1300	
September 29	0600	No wind observations.
	1300	

AVERAGE MIXING LAYER HEIGHT

COLORADO Cb TRACT

September, 1976

	HEIGHT IN METERS					
	MORNING			AFTERNOON		
DATE	0^{o}	$+5^{o}$	$+10^{o}$	0^{o}	$+5^{o}$	$+10^{o}$
1	sfc	800m	2100m	50m	1500m	2400m
3	50m	1000m	2900m	sfc	1800m	3750m
5						
7	50m	900m	2300m	sfc	2500m	3250m
9	sfc	600m	1600m	sfc	1400m	1750m
11						
13						
15	sfc	1300m	N/D			
17	150m	N/D	N/D	sfc	1900m	2700m
19						
21	sfc	300m	N/D	sfc	1500m	2400m
23	200m	1150m	1500m	sfc	1000m	1600m
25	sfc	500m	1750m	sfc	500m	N/D
27	sfc	900m	1900m	sfc	1250m	1900m
29	sfc	1100m	2100m	150m	2200m	N/D

CLOUD COVER AND SIGNIFICANT WEATHER

COLORADO Cb TRACT

September, 1976

DATE	MORNING	AFTERNOON
1	clear	clear
3	clear	clear
5		
7	overcast, rain	overcast, rain
9	clear	clear
11		
13		
15	scattered	scattered
17	scattered	scattered
19		
21	fog	clear
23	rain	rain
25	overcast	rain
27	fog, rain	clear
29	clear	clear

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2009

DATE 09/01/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	76.	0.24	-0.24

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2011

DATE 09/01/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
634.	672.	0.0	-0.73

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1941

DATE 09/03/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
459.	574.	0.03	-0.78

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1227

DATE 09/03/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 0M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-0.63
100.	250.	-0.87
250.	500.	-0.63
500.	750.	-0.59
750.	1000.	-0.71
1000.	1500.	-0.74

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 992

DATE 09/07/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

229. 267. 0.0 -0.48

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/07/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.0	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2279

DATE 09/09/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	267.	0.28	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2368

DATE 09/09/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	4.72	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2331

DATE 09/15/76 TIME 06:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	76.	0.0	-0.24

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2523

DATE 09/15/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2567

DATE 09/17/76 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT INVERSION BASES WITHIN 1500M OF THE SFC

0.	100.	-1.20
100.	250.	-0.51
250.	500.	-0.93
500.	750.	-0.94
750.	1000.	-0.98
1000.	1500.	-0.94

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2406

DATE 09/17/76 TIME 14:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
305.	457.	0.0	-0.68

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	419.	0.39	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 12:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
191.	229.	0.0	-0.61

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2123

DATE 09/23/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.0	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2061

DATE 09/23/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE	INV TOP	INV DT/DZ	DT/DZ BELOW INV

991.	1029.	0.0	-0.52

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2058

DATE 09/27/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	152.	0.0	-0.38

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1965

DATE 09/27/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	114.	0.0	-0.37

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1958

DATE 09/29/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.0	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1947

DATE 09/29/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
787.	825.	0.0	-1.00

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT ELEV 2042 METERS

HOLZWORTH'S CLASSIFICATION SCHEME FOR INVERSIONS
MODIFIED TO SHOW TOTAL NUMBER INSTEAD OF PERCENT

	INVERSION BASE HEIGHT (M)										
THICKNESS (METERS)	SFC	1-100	101-250	251-500	501-750	751-1000	1000-1500	1501-2000	2001-2500	2501-3000	TOTAL
1 - 100	4	4	2	0	1	2	0	0	0	0	13
101 - 250	0	0	0	2	0	0	0	0	0	0	2
251 - 500	2	0	0	0	0	0	0	0	0	0	2
501 - 750	0	0	0	0	0	0	0	0	0	0	0
751 - 1000	0	0	0	0	0	0	0	0	0	0	0
1001 - 1500	0	0	0	0	0	0	0	0	0	0	0
> 1500	0	0	0	0	0	0	0	0	0	0	0
INV TOTAL	6	4	2	2	1	2	0	0	0	0	17
DT/DZ 5		4	0	0	0	0	0	0	0	0	4
FROM INV 4		0	2	2	1	1	0	0	0	0	6
BASE 3		0	0	0	0	1	0	0	0	0	1
TO 2		0	0	0	0	0	0	0	0	0	0
SFC 1		0	0	0	0	0	0	0	0	0	0
NO INV TOT		2	2	2	2	2	2				
DT/DZ FOR 5		0	0	0	0	0	0				
SAME 4		1	1	1	1	1	1				
LAYERS 3		1	1	1	1	1	1				
AS INV 2		0	0	0	0	0	0				
BASE 1		0	0	0	0	0	0				

DT/DZ (DEG C)/100M
5= 0.00 TO -0.40
4=-0.41 TO -0.80
3=-0.81 TO -1.20
2=-1.21 TO -1.60
1=<-1.60

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	1.00	0.0	0.0	0.0	0.0	4.4	1.00
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	4.4	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	1.00	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.07

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.10	0.0	0.0	0.0	7.1	0.10
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.10	0.0	0.0	0.0	9.3	0.10
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.20	0.0	0.0	0.0	0.0	0.0	1.5	0.20
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.10	0.0	0.0	0.0	0.0	0.0	2.0	0.10
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.20	0.10	0.0	0.10	0.10	0.0	7.8	0.50
AVG SPEED	1.9	3.2	8.2	13.8	17.4	0.0		0.0
TOTAL	0.50	0.10	0.20	0.10	0.10	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.67

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.25	0.0	0.0	0.0	0.0	0.0	0.6	0.25
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.25	0.0	0.0	0.0	0.0	0.0	1.3	0.25
E	0.25	0.0	0.0	0.0	0.0	0.0	2.1	0.25
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.25	0.0	0.0	0.0	0.0	0.0	1.6	0.25
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	1.4	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.27

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: SEPTEMBER YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.07	0.0	0.0	0.0	0.0	0.0	0.6	0.07
NE	0.0	0.0	0.07	0.0	0.0	0.0	7.1	0.07
ENE	0.07	0.0	0.0	0.0	0.0	0.0	1.3	0.07
E	0.07	0.0	0.0	0.0	0.0	0.0	2.1	0.07
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.07	0.07	0.07	0.0	0.0	0.0	5.1	0.20
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.13	0.0	0.0	0.0	0.0	0.0	1.5	0.13
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.07	0.0	0.0	0.0	0.0	0.0	2.0	0.07
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.13	0.07	0.0	0.07	0.07	0.0	7.8	0.33
AVG SPEED	1.7	3.8	8.2	13.8	17.4	0.0		0.0
TOTAL	0.60	0.13	0.13	0.07	0.07	0.0		1.00

NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 5 SOUNDINGS FROM A SAMPLE OF 20 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2009

DATE 09/01/76 TIME 06:30MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		13.01		0.0		1.0	45.
1.0	150	2192	12.83	-0.18	-0.72	2.21	1.4	153.
2.0	300	2342	12.82	-0.00	-0.54	2.39	4.1	67.
3.0	458.	2500.	11.45	-0.91	-1.81	1.12	2.8	59.
3.3	500	2542	11.48	-0.43	-1.81	1.12	2.4	63.
6.3	958.	3000.	9.23	-2.25	-1.28	1.65	3.0	60.
12.8	1956.	4000.	2.55	-6.68	-0.56	2.37		
19.4	2958.	5000.	-0.13	-2.68	-1.70	1.22		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2009

DATE 09/01/76 TIME 06:30MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.7	-0.7	1.0	45.
0.5	76.	2118.	-0.9	-1.4	1.7	33.
1.0	152.	2194.	-0.6	1.3	1.4	157.
1.5	229.	2271.	-2.3	1.3	2.6	119.
2.0	305.	2347.	-3.8	-1.8	4.2	64.
2.5	381.	2423.	-2.7	2.5	3.7	133.
3.0	457.	2499.	-2.4	-1.4	2.8	59.
3.5	533.	2575.	-2.0	-0.9	2.2	66.
4.0	610.	2652.	-1.3	-1.8	2.2	36.
4.5	686.	2728.	-1.2	-0.9	1.5	55.
5.0	762.	2804.	-1.5	-1.1	1.8	54.
5.5	838.	2880.	-1.4	-1.5	2.0	42.
6.0	914.	2956.	-2.3	-1.7	2.9	54.
6.5	991.	3033.	-2.8	-1.3	3.1	65.
7.0	1067.	3109.	-3.8	-0.5	3.8	82.
7.5	1143.	3185.	-4.9	0.0	4.9	91.
8.0	1219.	3261.	-5.0	-0.1	5.0	88.
8.5	1295.	3337.	-5.2	-0.2	5.2	88.
9.0	1372.	3414.	-4.1	-0.6	4.2	81.
9.5	1448.	3490.	-3.3	-1.1	3.5	72.
10.0	1524.	3566.	-3.4	-1.2	3.6	70.
10.5	1600.	3642.	-3.0	-1.5	3.3	63.
11.0	1676.	3718.	-2.9	-1.1	3.1	68.
11.5	1753.	3795.	-2.5	-1.6	3.0	58.
12.0	1829.	3871.	-3.2	-1.0	3.3	73.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2011

DATE 09/01/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		16.46		0.0		2.6	360.
1.0	150	2192	15.65	-0.81	-2.31	0.61	2.1	22.
1.9	300	2342	13.94	-1.71	-3.40	-0.48	2.9	334.
2.8	458.	2500.	12.55	-1.37	-1.98	0.95	3.4	332.
3.1	500	2542	12.29	-0.28	-1.44	1.48	3.2	332.
6.1	958.	3000.	8.67	-3.14	-2.56	0.36	2.6	88.
12.7	1958.	4000.	5.11	-4.03	-1.11	1.81		
19.2	2958.	5000.	-0.13	-5.24	-1.51	1.42		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2011

DATE 09/01/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-2.6	2.6	360.
0.5	76.	2118.	0.1	-3.5	3.5	359.
1.0	152.	2194.	-0.4	-2.0	2.0	11.
1.5	231.	2273.	0.8	-2.1	2.2	339.
2.0	324.	2366.	1.5	-2.7	3.1	332.
2.5	406.	2448.	1.7	-2.9	3.4	329.
3.0	482.	2524.	1.5	-3.0	3.4	333.
3.5	558.	2600.	1.2	-2.1	2.5	330.
4.0	634.	2676.	0.2	-1.0	1.0	349.
4.5	710.	2752.	-1.3	-0.6	1.4	66.
5.0	787.	2829.	-1.7	-1.2	2.1	55.
5.5	863.	2905.	-2.0	-1.1	2.3	60.
6.0	939.	2981.	-2.5	-0.1	2.5	87.
6.5	1017.	3059.	-3.0	-0.0	3.0	89.
7.0	1093.	3135.	-3.2	-0.3	3.2	85.
7.5	1169.	3211.	-3.1	-0.0	3.1	89.
8.0	1245.	3287.	-3.2	-0.2	3.2	86.
8.5	1321.	3363.	-3.1	-0.4	3.2	83.
9.0	1398.	3440.	-3.7	0.3	3.7	94.
9.5	1474.	3516.	-3.4	0.3	3.4	96.
10.0	1550.	3592.	-2.8	-0.2	2.8	86.
10.5	1626.	3668.	-3.4	0.1	3.4	92.
11.0	1702.	3744.	-2.5	-0.8	2.6	73.
11.5	1779.	3821.	-2.9	-0.3	2.9	85.
12.0	1855.	3897.	-3.1	-0.3	3.1	85.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1941

DATE 09/03/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		20.03		0.0		0.5	225.
1.0	150	2192	19.14	-0.88	-1.93	1.00	2.3	167.
2.0	300	2342	17.81	-1.34	-2.29	0.64	0.4	205.
3.0	458.	2500.	16.46	-1.35	-1.59	1.34	1.9	274.
3.3	500	2542	16.46	-0.00	0.0	2.93	1.7	285.
6.3	958.	3000.	14.92	-1.53	-0.89	2.04	2.0	292.
12.8	1958.	4000.	7.65	-7.27	-2.02	0.90		
19.4	2958.	5000.	0.36	-7.30	-1.51	1.42		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1941

DATE 09/03/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.4	0.4	0.5	225.
0.5	76.	2118.	0.5	2.2	2.3	193.
1.0	152.	2194.	-0.5	2.2	2.2	167.
1.5	229.	2271.	-1.4	2.1	2.6	147.
2.0	305.	2347.	0.1	0.2	0.3	208.
2.5	383.	2425.	1.0	0.9	1.4	227.
3.0	459.	2501.	1.9	-0.2	1.9	275.
3.5	536.	2578.	1.4	-0.6	1.6	294.
4.0	612.	2654.	1.4	0.2	1.4	262.
4.5	688.	2730.	1.1	-0.1	1.1	274.
5.0	764.	2806.	1.2	-0.2	1.2	282.
5.5	840.	2882.	1.4	-0.5	1.5	289.
6.0	917.	2959.	1.6	-0.4	1.7	285.
6.5	993.	3035.	2.0	-1.1	2.3	299.
7.0	1069.	3111.	2.0	-0.8	2.2	292.
7.5	1145.	3187.	2.6	-2.5	3.6	315.
8.0	1221.	3263.	1.3	-1.3	1.8	315.
8.5	1298.	3340.	2.1	-1.2	2.4	300.
9.0	1374.	3416.	3.0	-1.4	3.3	294.
9.5	1450.	3492.	1.3	-2.3	2.7	331.
10.0	1526.	3568.	4.4	0.3	4.4	267.
10.5	1602.	3644.	3.0	-1.7	3.5	299.
11.0	1679.	3721.	2.4	-2.7	3.6	318.
11.5	1755.	3797.	3.2	-4.8	5.8	326.
12.0	1831.	3873.	4.4	-3.5	5.7	308.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1227

DATE 09/03/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		23.53		0.0		1.0	360.
1.0	150	2192	22.58	-0.95	-2.58	0.35	2.4	344.
2.0	300	2342	21.27	-1.31	-2.25	0.68	2.5	6.
3.0	458.	2500.	19.94	-1.22	-1.74	1.19	1.2	318.
3.3	500	2542	19.94	-0.10	-1.74	1.19	1.4	316.
6.3	958.	3000.	16.82	-3.11	-2.47	0.46	1.2	292.
12.8	1958.	4000.	9.14	-7.69	-2.93	-0.00		
19.4	2958.	5000.	1.12	-8.02	-1.32	1.61		
25.9	3958.	6000.	-4.19	-5.31	-2.68	0.25		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1227

DATE 09/03/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-1.0	1.0	360.
0.5	76.	2118.	0.9	-0.8	1.2	313.
1.0	152.	2194.	0.6	-2.4	2.5	345.
1.5	229.	2271.	-0.2	-2.3	2.4	4.
2.0	305.	2347.	-0.3	-2.5	2.5	6.
2.5	381.	2423.	-0.3	-1.0	1.0	20.
3.0	457.	2499.	0.8	-0.9	1.2	318.
3.5	533.	2575.	1.2	-1.2	1.6	315.
4.0	610.	2652.	1.1	-0.8	1.3	306.
4.5	686.	2728.	1.0	-0.8	1.3	311.
5.0	762.	2804.	1.7	-0.9	1.9	299.
5.5	838.	2880.	1.5	-0.4	1.6	286.
6.0	914.	2956.	0.9	-0.2	0.9	283.
6.5	991.	3033.	1.3	-0.7	1.5	299.
7.0	1067.	3109.	0.7	0.1	0.7	258.
7.5	1143.	3185.	1.0	-0.3	1.0	285.
8.0	1219.	3261.	1.0	-0.5	1.1	296.
8.5	1295.	3337.	0.7	-2.0	2.1	342.
9.0	1372.	3414.	2.1	-1.3	2.5	300.
9.5	1448.	3490.	1.0	-1.8	2.0	332.
10.0	1524.	3566.	0.9	-2.5	2.7	340.
10.5	1600.	3642.	0.7	-3.6	3.6	349.
11.0	1678.	3720.	0.6	-3.3	3.3	350.
11.5	1758.	3800.	0.1	-4.7	4.7	359.
12.0	1834.	3876.	0.5	-3.1	3.1	351.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 992

DATE 09/07/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.09		0.0		0.5	360.
1.0	150	2192	11.36	-0.73	-1.45	1.48	1.3	310.
2.0	300	2342	10.81	-0.55	-1.09	1.84	0.1	30.
3.0	458.	2500.	9.88	-0.73	-1.64	1.29	1.2	70.
3.3	500	2542	9.89	-0.19	-1.64	1.29	1.3	65.
6.3	958.	3000.	8.30	-1.60	0.74	3.66	3.2	84.
12.8	1958.	4000.	1.60	-6.69	-1.88	1.05		
19.4	2958.	5000.	-4.67	-6.27	-1.53	1.40		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 992

DATE 09/07/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-0.5	0.5	360.
0.5	76.	2118.	0.8	-0.7	1.1	310.
1.0	152.	2194.	0.9	-0.9	1.3	310.
1.5	229.	2271.	0.1	-0.2	0.2	336.
2.0	305.	2347.	-0.0	-0.1	0.1	10.
2.5	381.	2423.	-1.0	-0.9	1.3	48.
3.0	457.	2499.	-1.1	-0.4	1.2	70.
3.5	533.	2575.	-1.2	-0.7	1.4	61.
4.0	610.	2652.	-1.7	-0.8	1.9	65.
4.5	686.	2728.	-2.1	-1.2	2.4	60.
5.0	762.	2804.	-3.9	-1.4	4.1	70.
5.5	838.	2880.	-3.6	-1.3	3.8	71.
6.0	914.	2956.	-4.5	-0.8	4.6	80.
6.5	991.	3033.	-2.1	-0.2	2.1	86.
7.0	1067.	3109.	-0.5	-0.8	0.9	31.
7.5	1143.	3185.	0.1	-3.1	3.1	359.
8.0	1219.	3261.	0.6	-4.9	4.9	353.
8.5	1295.	3337.	2.4	-4.1	4.8	330.
9.0	1372.	3414.	4.3	-1.8	4.7	293.
9.5	1448.	3490.	6.3	-0.2	6.3	272.
10.0	1524.	3566.	6.2	0.1	6.2	269.
10.5	1600.	3642.	5.4	0.0	5.4	270.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/07/76 TIME 12:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.92		0.0		2.6	360.
1.0	150	2192	12.10	-0.82	-2.71	0.22	1.0	319.
2.0	? 300	2342	10.54	-1.56	-2.73	0.20	2.3	286.
3.0	458.	?2500.	9.14	-1.40	-3.29	-0.36	3.6	263.
3.2	? 500	2542	8.68	-0.47	-2.93	-0.01	3.8	259.
6.2	958.	3000.	3.98	-4.13	-2.80	0.13	4.0	248.
12.7	1958.	4000.	-2.73	-7.28	-3.24	-0.31		
18.7	2958.	5000.	-7.41	-4.68	-1.35	1.58		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/07/76 TIME 12:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-2.6	2.6	360.
0.5	76.	2118.	1.6	-1.3	2.1	310.
1.0	152.	2194.	0.7	-0.8	1.0	319.
1.5	229.	2271.	0.6	-0.4	0.7	303.
2.0	307.	2349.	2.4	-0.6	2.5	284.
2.5	383.	2425.	2.3	-0.1	2.3	271.
3.0	461.	2503.	3.6	0.5	3.6	262.
3.5	544.	2586.	3.9	1.1	4.1	255.
4.0	621.	2663.	7.3	0.8	7.3	264.
4.5	700.	2742.	0.1	1.1	1.1	188.
5.0	778.	2820.	3.5	1.1	3.6	252.
5.5	854.	2896.	2.9	2.1	3.6	234.
6.0	930.	2972.	3.7	1.6	4.0	247.
6.5	1007.	3049.	3.7	1.4	4.0	249.
7.0	1085.	3127.	5.8	1.9	6.1	252.
7.5	1161.	3203.	5.5	2.0	5.9	250.
8.0	1237.	3279.	4.8	1.5	5.1	252.
8.5	1314.	3356.	5.5	1.9	5.8	251.
9.0	1390.	3432.	5.5	1.8	5.8	252.
9.5	1466.	3508.	5.4	2.6	6.0	244.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2279

DATE 09/09/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		11.17		0.0		1.0	360.
1.0	150	2192	11.17	-0.00	0.54	3.47	1.4	26.
2.0	300	2342	11.10	-0.08	-2.00	0.93	2.5	76.
3.0	458.	2500.	10.34	-0.75	-1.09	1.83	3.1	113.
3.3	500	2542	9.81	-0.54	-1.09	1.83	3.6	115.
6.3	958.	3000.	8.21	-1.59	-2.02	0.91	4.7	96.
12.8	1958.	4000.	3.88	-4.34	2.42	5.35		
19.4	2958.	5000.	0.64	-3.24	-1.32	1.61		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2279

DATE 09/09/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-1.0	1.0	360.
0.5	76.	2118.	-0.2	-0.8	0.9	15.
1.0	152.	2194.	-0.6	-1.3	1.4	26.
1.5	229.	2271.	0.6	-1.2	1.3	335.
2.0	305.	2347.	-2.2	-1.3	2.5	58.
2.5	384.	2426.	-0.6	-0.1	0.6	77.
3.0	461.	2503.	-2.9	1.3	3.2	115.
3.5	537.	2579.	-3.6	1.7	4.0	115.
4.0	613.	2655.	-4.5	0.3	4.5	94.
4.5	689.	2731.	-3.8	0.8	3.9	102.
5.0	765.	2807.	-3.2	0.3	3.2	94.
5.5	842.	2884.	-4.3	0.4	4.3	95.
6.0	918.	2960.	-4.4	0.1	4.4	91.
6.5	994.	3036.	-4.8	0.9	4.9	101.
7.0	1070.	3112.	-2.9	1.2	3.1	113.
7.5	1146.	3188.	-2.2	2.3	3.2	136.
8.0	1223.	3265.	-1.6	2.2	2.7	145.
8.5	1299.	3341.	-1.9	2.3	3.0	140.
9.0	1375.	3417.	-2.3	2.1	3.2	133.
9.5	1451.	3493.	-1.9	1.8	2.6	134.
10.0	1527.	3569.	-2.7	2.0	3.4	127.
10.5	1604.	3646.	-0.2	1.8	1.8	174.
11.0	1680.	3722.	-0.8	2.4	2.5	161.
11.5	1756.	3798.	-4.7	-5.5	7.2	40.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2368

DATE 09/09/76 TIME 12:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		15.56		0.0		0.5	360.
1.0	150	2192	15.56	0.00	0.0	2.93	2.2	92.
1.9	300	2342	15.12	-0.44	-1.42	1.50	2.1	145.
3.0	458.	2500.	14.10	-1.01	-3.22	-0.30	2.0	153.
3.2	500	2542	13.83	-0.28	-2.51	0.41	3.2	162.
6.2	958.	3000.	9.97	-3.39	-3.64	-0.72	2.8	197.
9.5	*1500	3542	6.34		2.40	5.32		
10.0	*1576	3618	7.65		2.77	5.69		
12.5	1958.	4000.	6.81	-3.63	-2.58	0.35		
19.0	2958.	5000.	-0.31	-7.13	-2.65	0.28		
25.2	3958.	6000.	-7.61	-7.29	-1.74	1.19		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2368

DATE 09/09/76 TIME 12:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-0.5	0.5	360.
0.5	76.	2118.	-1.0	0.6	1.2	121.
1.0	157.	2199.	-2.3	-0.0	2.3	90.
1.5	233.	2275.	-0.1	1.8	1.8	178.
2.0	309.	2351.	-1.3	1.6	2.1	141.
2.5	386.	2428.	-1.4	1.9	2.3	144.
3.0	462.	2504.	-0.9	1.8	2.0	154.
3.5	541.	2583.	-0.7	4.4	4.5	171.
4.0	618.	2660.	-0.7	1.0	1.2	147.
4.5	694.	2736.	-1.2	1.9	2.2	147.
5.0	770.	2812.	-0.2	1.6	1.6	174.
5.5	846.	2888.	-0.1	2.4	2.4	178.
6.0	928.	2970.	0.5	2.3	2.4	192.
6.5	1021.	3063.	1.7	3.2	3.7	208.
7.0	1113.	3155.	2.1	2.8	3.5	217.
7.5	1195.	3237.	2.3	2.3	3.3	226.
8.0	1272.	3314.	3.7	2.2	4.3	239.
8.5	1348.	3390.	2.7	1.5	3.1	240.
9.0	1424.	3466.	2.5	2.3	3.4	228.
9.5	1500.	3542.	2.7	2.6	3.7	226.
10.0	1576.	3618.	3.0	2.7	4.0	228.
10.5	1653.	3695.	3.6	3.0	4.7	230.
11.0	1729.	3771.	4.9	0.9	5.0	260.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2331

DATE 09/15/76 TIME 06:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SID	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		14.29		0.0		M	M
1.0	150	2192	13.78	-0.51	-2.02	0.90	14.8	149.
2.0	300	2342	13.60	-0.18	0.17	3.10	11.0	177.
3.0	458.	2500.	12.31	-0.93	-3.58	-0.65	15.0	162.
3.3	500	2542	12.33	-0.34	-3.58	-0.65	15.5	186.
5.8	958.	3000.	7.85	-4.48	-2.44	0.49	18.9	184.
12.4	1958.	4000.	2.74	-5.11	-1.61	1.32		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2331

DATE 09/15/76 TIME 06:10MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	-2.9	-5.0	5.8	31.
1.0	152.	2194.	-7.0	13.4	15.1	152.
1.5	229.	2271.	-4.9	7.0	8.5	145.
2.0	305.	2347.	-0.3	11.1	11.1	179.
2.5	381.	2423.	1.8	10.7	10.9	190.
3.0	457.	2499.	-4.7	14.3	15.0	162.
3.5	533.	2575.	6.7	14.3	15.8	205.
4.0	609.	2671.	-3.0	15.1	15.4	169.
4.5	735.	2777.	0.7	19.4	19.4	182.
5.0	821.	2863.	2.8	17.6	17.8	189.
5.5	909.	2951.	-1.3	19.2	19.3	176.
6.0	986.	3028.	2.8	18.5	18.7	188.
6.5	1063.	3105.	2.3	16.7	16.8	186.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2523

DATE 09/15/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		17.15		0.0		M	M
0.8	150	2192	14.04	-3.12	-2.31	0.62	6.5	122.
1.5	300	2342	13.28	-0.76	-2.83	0.10	5.1	160.
2.6	458.	2500.					5.6	202.
2.9	500	2542					6.0	191.
5.9	958.	3000.					6.1	195.
12.4	1958.	4000.					6.7	214.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2523

DATE 09/15/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	-4.1	2.2	4.6	118.
1.0	218.	2260.	-6.6	4.8	8.1	126.
1.5	294.	2336.	-1.3	5.0	5.2	166.
2.0	370.	2412.	-3.8	0.7	4.0	100.
2.5	446.	2488.	2.3	5.0	5.5	204.
3.0	522.	2564.	0.6	6.1	6.2	180.
3.5	599.	2641.	1.5	6.5	6.7	193.
4.0	675.	2717.	2.9	0.7	7.3	204.
4.5	751.	2793.	1.8	6.8	7.1	195.
5.0	827.	2869.	1.2	5.9	6.1	192.
5.5	903.	2945.	1.9	7.2	7.4	195.
6.0	980.	3022.	1.4	5.4	5.6	195.
6.5	1056.	3098.	5.7	5.4	7.8	227.
7.0	1132.	3174.	5.4	6.0	8.1	222.
7.5	1208.	3250.	3.7	5.9	7.0	212.
8.0	1284.	3326.	3.8	6.1	7.0	209.
8.5	1361.	3403.	4.1	5.9	7.0	215.
9.0	1437.	3479.	4.7	6.6	8.1	216.
9.5	1513.	3555.	5.3	6.2	8.1	221.
10.0	1589.	3631.	7.3	6.2	9.6	230.
10.5	1665.	3707.	4.6	6.2	7.7	217.
11.0	1742.	3784.	3.2	6.8	7.6	205.
11.5	1818.	3860.	4.5	5.9	7.4	217.
12.0	1894.	3936.	4.0	5.4	6.7	216.
12.5	1970.	4012.	5.7	5.6	6.7	213.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2567

DATE 09/17/76 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		17.50		0.0		M	M
1.0	150	2192	16.07	-1.43	-1.33	1.60	15.0	334.
2.0	300	2342	15.06	-1.01	-2.64	0.08	24.2	330.
3.0	458.	?2500.	13.29	-1.77	-2.58	0.39	15.5	333.
3.3	? 500	2542	12.94	-0.35	-2.54	0.39	16.0	336.
6.2	958.	?3000.	8.82	-4.11	-3.47	-0.55	14.5	331.
12.1	1958.	4000.	-1.47	-9.84	-2.73	-0.20	11.3	333.
18.2	2958.	5000.	-10.21	-9.20	-3.76	-0.83		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2567

DATE 09/17/76 TIME 08:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	4.7	-9.7	10.7	334.
1.0	152.	2194.	6.7	-13.6	15.2	334.
1.5	229.	2271.	10.1	-18.6	21.2	332.
2.0	305.	2347.	12.1	-21.2	24.4	330.
2.5	381.	2423.	10.0	-16.2	19.0	328.
3.0	458.	2500.	7.0	-13.8	15.5	333.
3.5	534.	2576.	6.2	-15.1	16.3	338.
4.0	611.	2653.	7.4	-15.8	17.4	335.
4.5	687.	2729.	9.4	-16.9	19.4	331.
5.0	771.	2813.	10.8	-24.2	26.5	330.
5.5	851.	2893.	4.6	-10.6	11.5	336.
6.0	927.	2969.	6.6	-10.6	12.5	328.
6.5	1005.	3047.	7.7	-15.8	17.6	334.
7.0	1091.	3133.	1.8	-17.5	17.6	354.
7.5	1171.	3213.	6.6	-6.6	9.3	315.
8.0	1247.	3289.	1.2	-4.5	4.6	345.
8.5	1323.	3365.	3.9	-9.0	9.8	337.
9.0	1411.	3453.	3.4	-8.0	8.7	337.
9.5	1494.	3536.	4.0	-9.4	10.3	337.
10.0	1584.	3626.	1.7	-8.3	8.4	348.
10.5	1687.	3729.	5.3	-15.0	15.9	341.
11.0	1789.	3831.	5.4	-18.3	19.0	344.
11.5	1872.	3914.	4.9	-10.7	11.7	335.
12.0	1948.	3990.	4.9	-9.2	10.4	332.
12.5	2025.	4067.	7.3	-15.9	17.5	335.
13.0	2107.	4149.	1.6	-3.6	3.9	335.
13.5	2183.	4225.	2.0	-5.9	6.2	341.
14.0	2265.	4307.	2.2	-6.5	6.9	341.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2406

DATE 09/17/76 TIME 14:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		13.77		0.0		M	M
1.0	150	2192	12.84	-0.94	-1.86	1.06	15.0	336.
2.0	300	2342	11.71	-1.12	-1.53	1.40	14.9	338.
3.0	458.	2500.	11.45	-0.09	-1.71	1.22	14.6	343.
3.3	500	2542	11.46	-0.17	-1.71	1.22	14.2	344.
6.3	958.	?3006.	7.94	-3.51	-2.09	0.84	24.0	348.
11.8	1958.	4000.	-0.64	-8.59	-1.82	1.11	24.2	350.
18.4	2958.	5000.	-4.26	-3.61	-1.65	1.27		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2406

DATE 09/17/76 TIME 14:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	3.3	-7.0	7.7	335.
1.0	152.	2194.	6.2	-15.9	15.2	336.
1.5	229.	2271.	5.1	-12.5	13.9	334.
2.0	305.	2347.	5.6	-13.9	15.0	330.
2.5	381.	2423.	5.8	-15.8	16.8	340.
3.0	457.	2499.	4.2	-14.0	14.6	343.
3.5	533.	2575.	3.8	-13.4	13.9	344.
4.0	610.	2652.	3.0	-12.5	12.9	347.
4.5	686.	2728.	3.1	-12.2	12.6	346.
5.0	762.	2804.	3.7	-14.5	15.0	346.
5.5	838.	2880.	3.4	-16.5	16.8	348.
6.0	914.	2956.	4.8	-24.3	24.7	349.
6.5	991.	3033.	5.3	-22.8	23.4	347.
7.0	1067.	3109.	4.3	-25.3	25.6	350.
7.5	1143.	3185.	3.1	-21.9	22.1	352.
8.0	1219.	3261.	3.4	-19.5	19.8	350.
8.5	1295.	3337.	2.4	-16.7	16.9	352.
9.0	1372.	3414.	2.5	-20.4	20.6	353.
9.5	1448.	3490.	1.9	-17.0	17.1	354.
10.0	1524.	3566.	1.4	-13.1	13.2	354.
10.5	1619.	3661.	0.3	-17.2	17.2	359.
11.0	1763.	3805.	4.3	-31.1	31.4	352.
11.5	1909.	3951.	5.0	-36.6	36.9	352.
12.0	1985.	4027.	0.8	-17.1	17.1	358.
12.5	2062.	4104.	-0.1	-28.3	28.3	0.
13.0	2138.	4180.	1.2	-29.4	29.4	356.
13.5	2214.	4256.	-2.0	-24.7	24.8	5.
14.0	2290.	4332.	-3.5	-18.6	19.0	11.
14.5	2366.	4408.	1.7	-10.9	11.0	351.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.28		0.0		M	M
1.0	150	2192	13.74	1.46	-0.90	2.03	M	M
2.0	300	2342	13.92	0.18	1.26	4.18	M	M
3.0	458.	2500.	13.49	-0.42	-2.16	0.77	M	M
3.3	500	2542	13.04	-0.46	-2.34	0.59	M	M
6.3	958.	3000.	9.33	-3.71	-2.92	0.01	M	M
12.7	1958.	4000.	0.74	-8.60	-2.26	0.67		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 12:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		15.32		0.0		M	M
1.0	150	2192	14.42	-0.90	-1.42	1.51	1.8	209.
2.0	300	2342	13.79	-0.63	-2.32	0.61	2.7	179.
3.0	458.	2500.	11.42	-1.77	-3.60	-0.67	2.5	197.
3.3	500	2542	11.45	-0.56	-3.60	-0.67	2.9	195.
6.2	958.	3000.	7.55	-3.43	-3.10	-0.18	1.5	97.
12.7	1956.	4000.	2.95	-5.07	-0.74	2.18		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 0

DATE 09/21/76 TIME 12:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	0.7	1.1	1.3	210.
1.0	152.	2194.	0.9	1.6	1.8	208.
1.5	229.	2271.	-0.3	2.2	2.2	171.
2.0	305.	2347.	-0.0	2.7	2.7	180.
2.5	381.	2423.	0.5	2.0	2.1	193.
3.0	457.	2499.	0.7	2.3	2.5	197.
3.5	534.	2576.	0.7	3.2	3.3	193.
4.0	618.	2660.	0.2	2.6	2.6	185.
4.5	694.	2736.	1.3	2.3	2.7	210.
5.0	770.	2812.	2.0	-0.2	2.0	276.
5.5	846.	2888.	0.3	0.2	0.3	235.
6.0	923.	2965.	-0.2	0.4	0.4	151.
6.5	1009.	3051.	-1.0	-3.0	3.1	18.
7.0	1087.	3129.	-4.7	0.6	4.8	98.
7.5	1163.	3205.	-2.4	0.1	2.4	93.
8.0	1239.	3281.	-3.5	0.7	3.5	101.
8.5	1315.	3357.	-1.7	-0.0	1.7	89.
9.0	1392.	3434.	-2.7	1.4	3.1	117.
9.5	1468.	3510.	-3.0	2.2	3.7	127.
10.0	1544.	3586.	-0.2	2.5	2.5	176.
10.5	1620.	3662.	-1.4	2.0	2.4	145.
11.0	1696.	3738.	-1.6	1.8	2.5	139.
11.5	1773.	3815.	-1.6	2.4	2.9	146.
12.0	1849.	3891.	-1.4	1.9	2.4	143.
12.5	1925.	3967.	-1.3	1.5	2.0	138.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2123

DATE 09/23/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.71		0.0		M	M
0.7	150	2192	6.53	-0.18	-4.26	-1.34	M	M
1.3	300	2342	4.38	-2.15	1.31	4.24	M	M
2.3	458.	2500.	3.23	-1.15	-1.87	1.06	M	M
2.5	500	2542	3.04	-0.19	-1.87	1.06	M	M
5.5	958.	3000.	0.64	-2.40	0.0	2.93	M	M
12.1	1958.	4000.	3.60	2.96	-0.56	2.37		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2123

DATE 09/23/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2061

DATE 09/23/76 TIME 13:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.80		0.0		M	M
1.0	150	2192	6.15	-0.65	-1.48	1.45	M	M
2.0	300	2342	5.40	-0.75	-1.48	1.44	M	M
3.0	458.	2500.	4.55	-0.85	-1.68	1.25	M	M
3.3	500	2542	4.01	-0.54	-1.86	1.06	M	M
6.3	958.	3000.	1.60	-2.41	-0.56	2.36	M	M
12.8	1958.	4000.	0.07	-1.53	-0.19	2.74		
19.4	2958.	5000.	-3.21	-3.28	-2.29	0.64		
25.7	3958.	6000.	-9.67	-6.46	-2.72	0.21		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2061

DATE 09/23/76 TIME 13:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2179

DATE 09/25/76 TIME 07:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.64		0.0		0.0	0.
1.0	150	2192	4.45	-0.19	-0.93	2.00	M	M
2.0	300	2342	3.79	-0.66	0.56	3.49	M	M
3.0	458.	2500.	4.46	0.67	0.0	2.93	M	M
3.3	500	2542	4.45	-0.01	-0.19	2.74	M	M
6.3	958.	3000.	2.46	-1.99	-2.25	0.68	M	M
12.8	*1948	3990	-3.80		3.81	6.74		
12.8	1958.	4000.	-2.55	-5.02	3.82	6.75		
13.3	*2024	4066	-1.86		2.10	5.03		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2179

DATE 09/25/76 TIME 07:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2237

DATE 09/25/76 TIME 12:37MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.64		0.0		0.0	0.
1.0	150	2192	4.45	-0.19	-0.75	2.18	M	M
2.0	300	2342	3.79	-0.66	0.75	3.67	M	M
3.0	458.	2500.	4.62	0.84	0.56	3.49	M	M
3.3	500	2542	4.55	-0.07	-1.86	1.06	M	M
6.3	958.	3000.	0.66	-3.89	-1.70	1.23	M	M

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2237

DATE 09/25/76 TIME 12:37MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2058

DATE 09/27/76 TIME 07:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.16		0.0		M	M
1.0	150	2192	-0.13	-0.29	-0.38	2.55	M	M
2.0	300	2342	-0.80	-0.67	-1.14	1.79	M	M
3.0	458.	2500.	-1.25	-0.46	-1.33	1.60	M	M
3.3	500	2542	-1.46	-0.21	-1.90	1.03	M	M
6.3	958.	3000.	-4.38	-2.92	-1.72	1.20	M	M
12.8	*1945	3987	-10.07		3.10	6.03		
12.8	1958.	4000.	-9.10	-4.72	3.88	6.81		
17.7	2958.	5000.	-16.84	-7.74	-5.53	-2.60		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2058

DATE 09/27/76 TIME 07:00MST ASCENT RATE 500 FpM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1965

DATE 09/27/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.30		0.0		M	M
1.0	150	2192	3.56	-0.74	-1.48	1.45	5.7	32.
2.0	300	2342	2.43	-1.13	-3.16	-0.23	7.5	38.
3.0	458.	2500.	1.19	-1.24	-2.43	0.50	9.3	48.
3.3	500	2542	0.48	-0.72	-2.62	0.31	6.6	63.
6.0	958.	3000.	-3.01	-3.39	-0.19	2.74	3.5	59.
12.6	1958.	4000.	-4.75	-1.94	0.0	2.93	7.5	311.
19.1	2958.	5000.	-9.22	-4.38	-1.35	1.58		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1965

DATE 09/27/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	-2.1	-3.7	4.2	30.
1.0	152.	2194.	-3.0	-4.9	5.8	32.
1.5	229.	2271.	-4.3	-6.8	8.0	32.
2.0	307.	2349.	-4.6	-5.8	7.4	39.
2.5	385.	2427.	-7.1	-8.7	11.3	39.
3.0	461.	2503.	-6.9	-6.1	9.2	48.
3.5	537.	2579.	-4.1	-0.9	4.2	78.
4.0	621.	2663.	-1.1	-1.7	2.0	33.
4.5	714.	2756.	-4.3	-5.6	7.1	37.
5.0	805.	2847.	-4.1	-4.7	6.3	41.
5.5	881.	2923.	-1.6	0.1	1.6	93.
6.0	957.	2999.	-2.9	-2.0	3.5	55.
6.5	1033.	3075.	0.8	-5.3	5.3	352.
7.0	1109.	3151.	-1.6	-2.1	2.6	39.
7.5	1186.	3228.	-0.5	-2.8	2.8	10.
8.0	1262.	3304.	-1.5	-2.4	2.8	33.
8.5	1338.	3380.	-1.1	-2.9	3.1	21.
9.0	1414.	3456.	1.0	-2.2	2.4	336.
9.5	1490.	3532.	-0.4	-2.4	2.4	9.
10.0	1567.	3609.	4.0	-2.6	4.8	303.
10.5	1643.	3685.	-1.1	-2.2	2.5	27.
11.0	1719.	3761.	-0.2	-2.6	2.6	5.
11.5	1795.	3837.	-0.2	-3.2	3.2	3.
12.0	1871.	3913.	0.7	-1.8	2.0	341.
12.5	1948.	3990.	0.3	-7.2	7.2	357.
13.0	2024.	4066.	-3.3	-9.4	10.0	19.
13.5	2100.	4142.	1.4	-7.7	7.8	350.
14.0	2176.	4218.	-0.2	-6.3	6.3	2.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1958

DATE 09/29/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		8.67		0.0		M	M
1.0	150	2192	8.49	-0.18	-0.37	2.56	M	M
2.0	300	2342	7.75	-0.74	-2.02	0.91	M	M
3.0	458.	2500.	6.72	-1.03	-2.40	0.53	M	M
3.3	500	2542	6.45	-0.27	-1.85	1.08	M	M
6.3	958.	3000.	3.05	-3.40	-2.43	0.50	M	M
12.8	1958.	4000.	-1.28	-4.33	-1.71	1.22		
19.1	2958.	5000.	-8.29	-7.02	-3.88	-0.95		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1958

DATE 09/29/76 TIME 07:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1947

DATE 09/29/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		14.20		0.0		M	M
0.9	150	2192	12.59	-1.60	-5.42	-2.50	2.2	338.
1.5	300	2342	10.56	-2.03	-5.81	-2.88	3.7	332.
2.0	458.	2500.	9.60	-0.96	-5.12	-2.19	4.3	324.
2.1	500	2542	8.46	-1.15	-5.51	-2.58	4.2	323.
4.4	958.	3000.	4.54	-3.90	-3.90	-0.98	1.8	257.
10.8	1958.	4000.	-1.57	-6.13	-1.52	1.41	1.4	276.
17.3	2958.	5000.	-8.09	-6.52	-3.29	-0.36		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1947

DATE 09/29/76 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	0.8	-1.8	2.0	335.
1.0	177.	2219.	0.8	-2.1	2.2	339.
1.5	312.	2354.	1.8	-3.3	3.8	331.
2.0	463.	2505.	2.5	-3.5	4.3	324.
2.5	597.	2639.	2.5	-2.9	3.8	319.
3.0	709.	2751.	2.9	-1.5	3.3	298.
3.5	787.	2829.	1.7	-1.1	2.1	302.
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6.5	1306.	3348.	1.8	-1.4	2.3	308.
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8.0	1535.	3577.	1.4	-0.8	1.6	299.
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9.0	1687.	3729.	1.9	-1.5	2.4	309.
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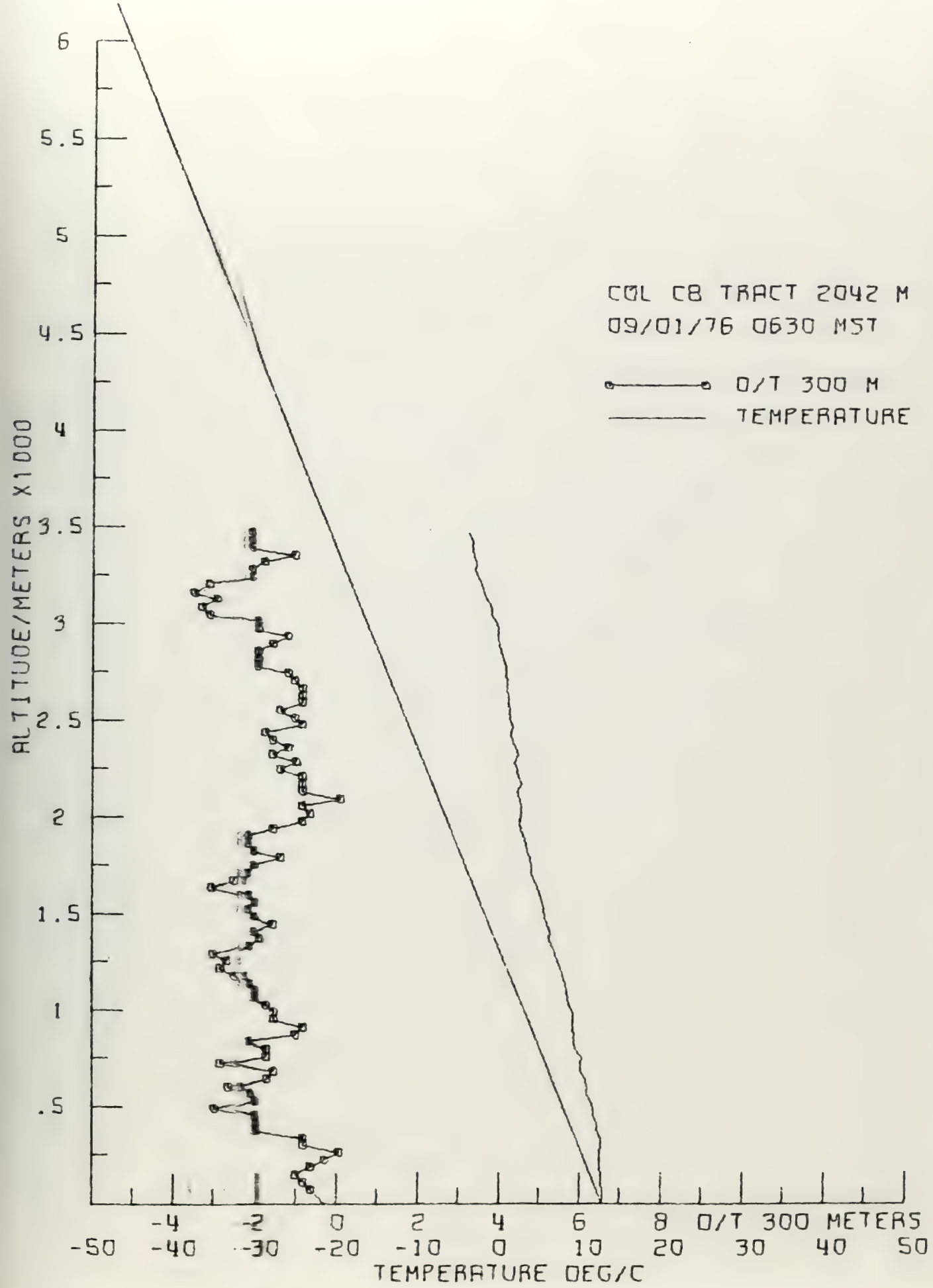
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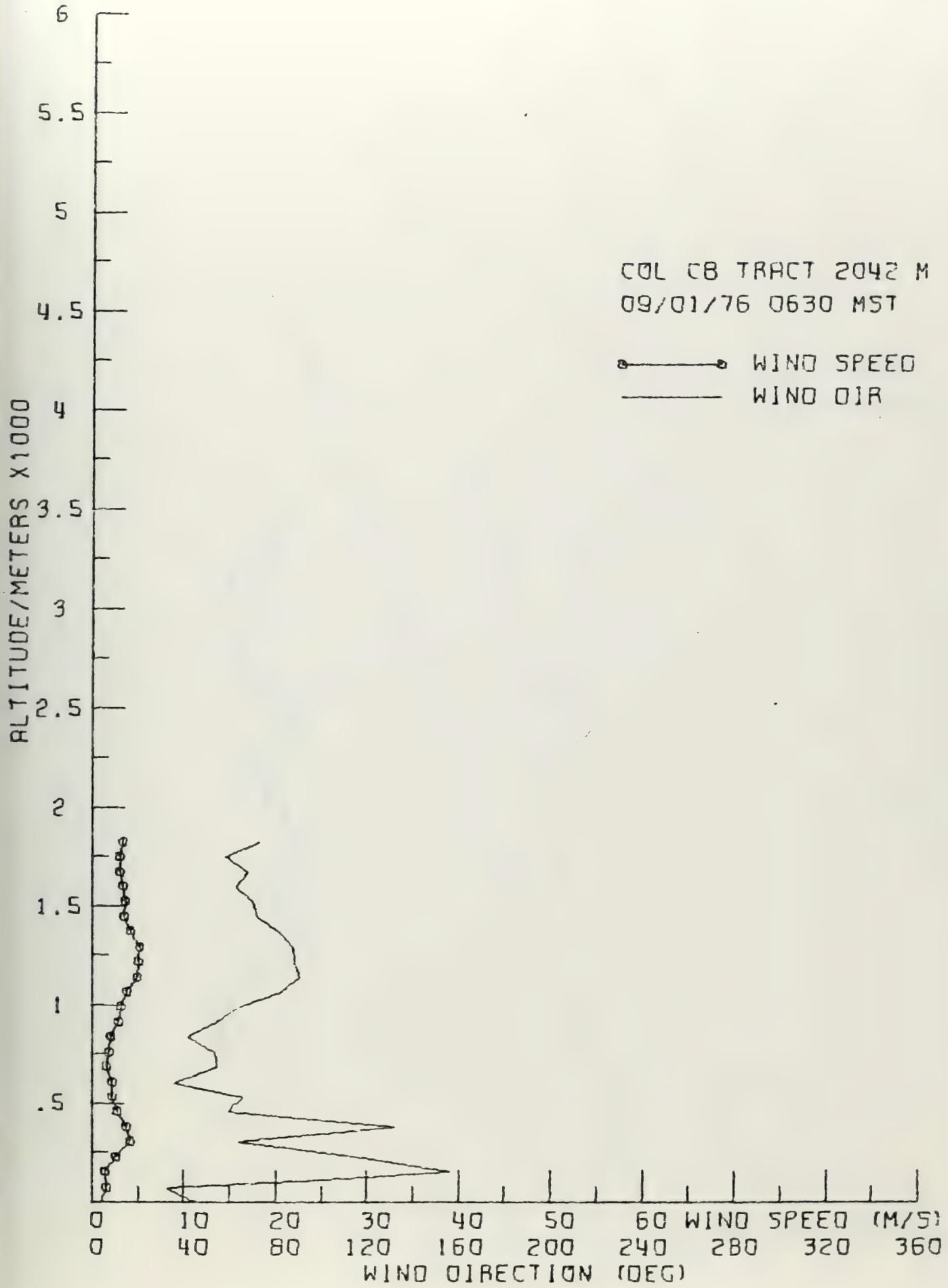
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WIND DIR
ALTITUDE/METERS X1000
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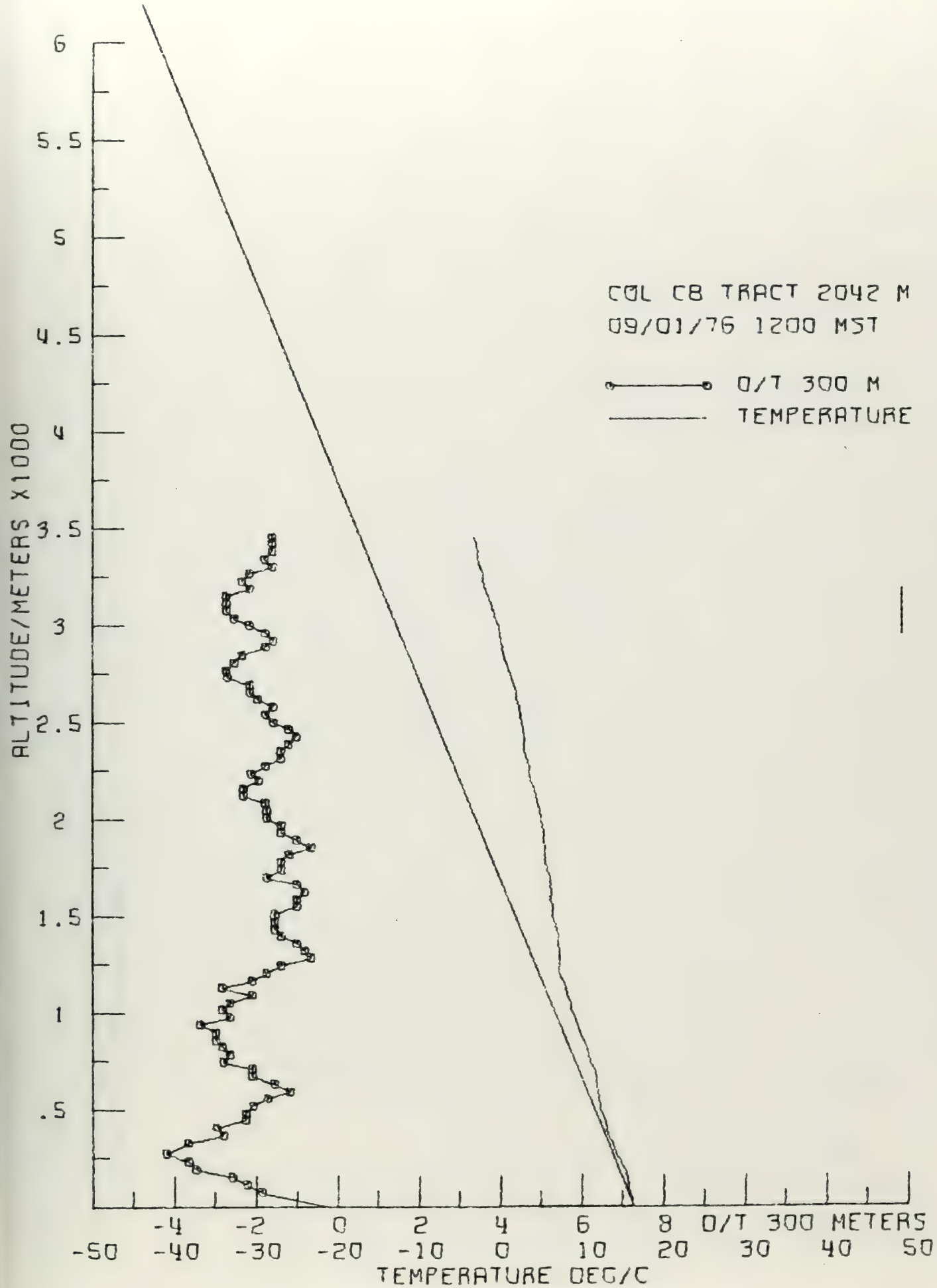
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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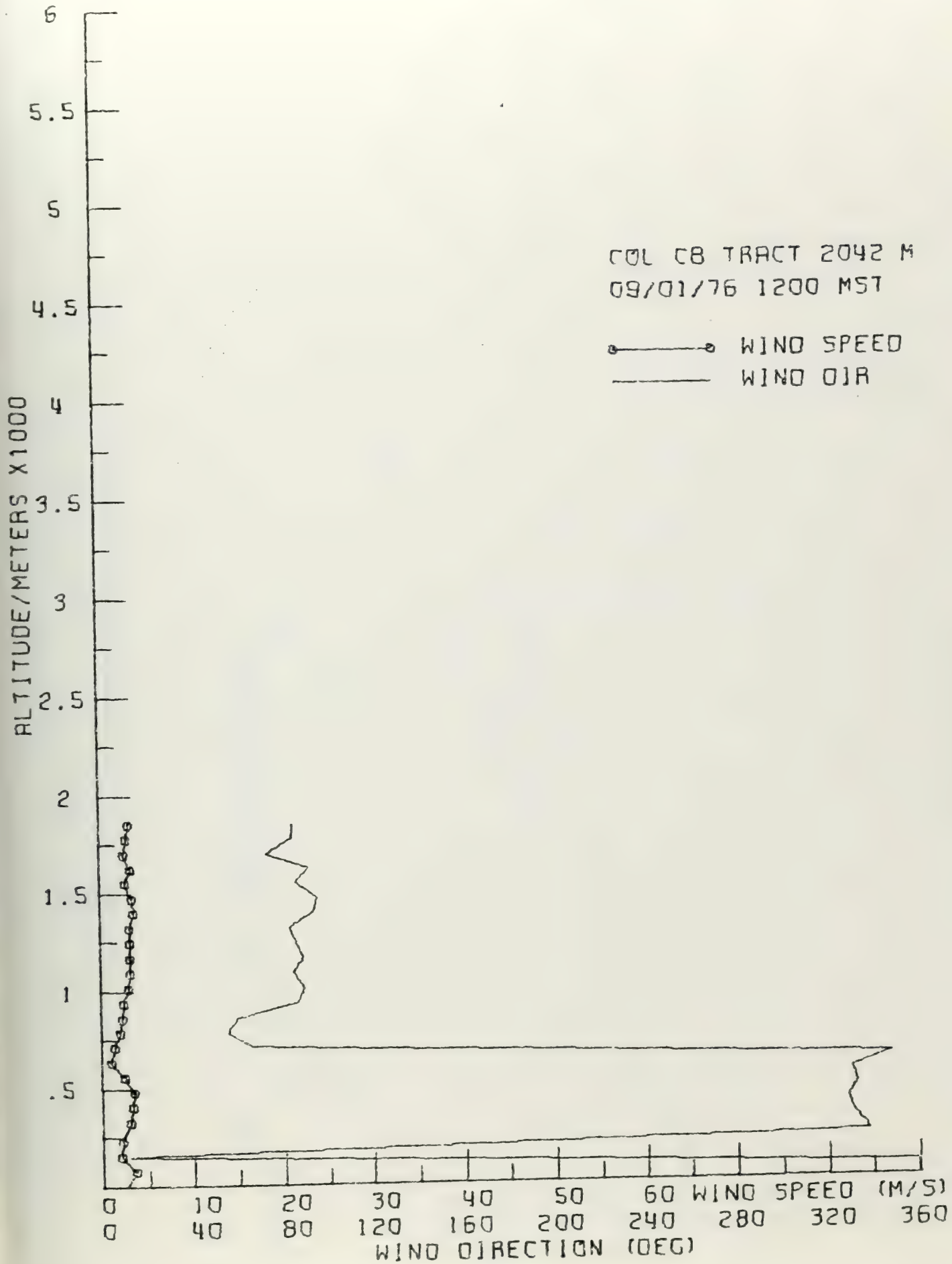
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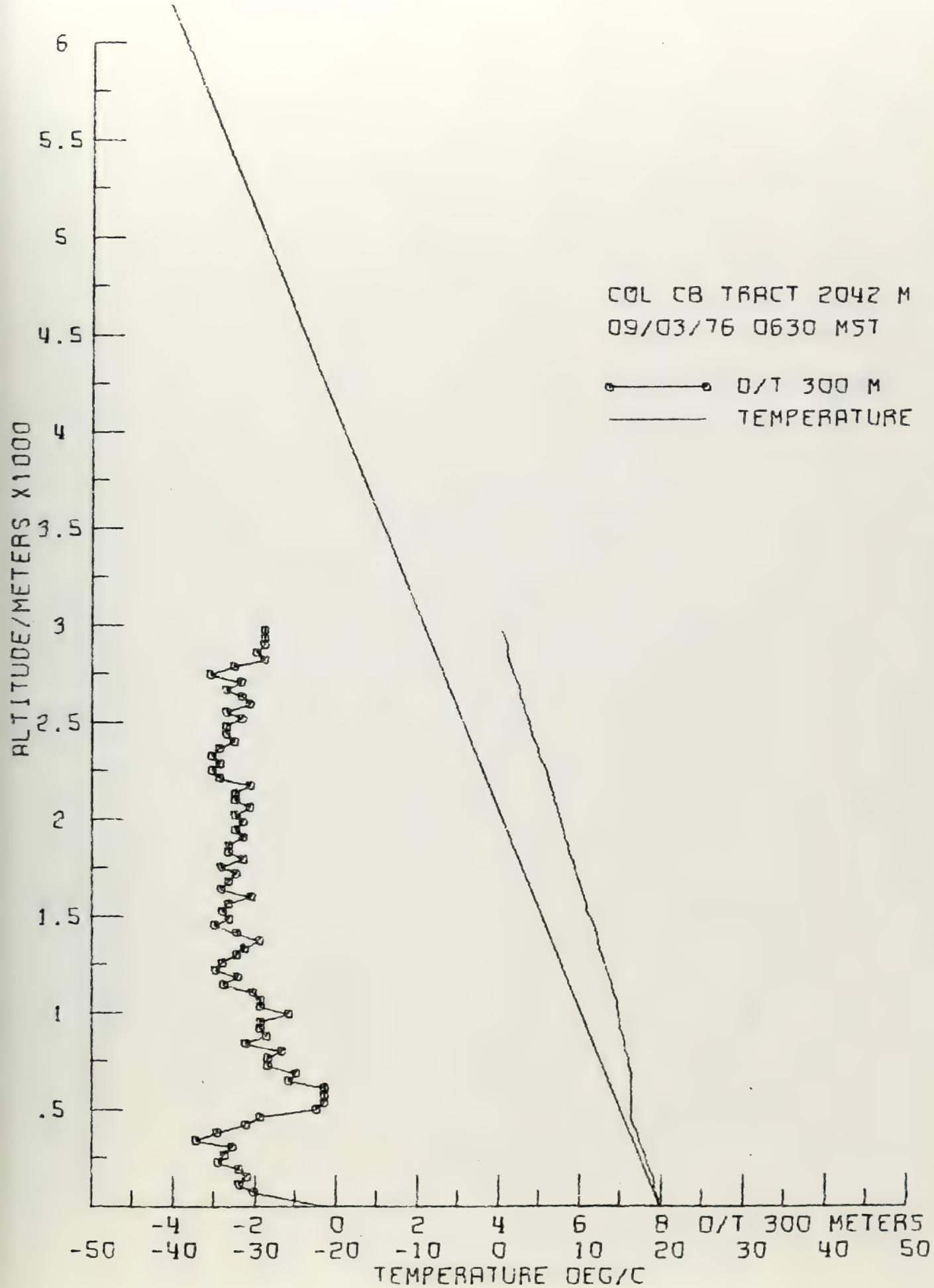
WIND DIRECTION (DEG)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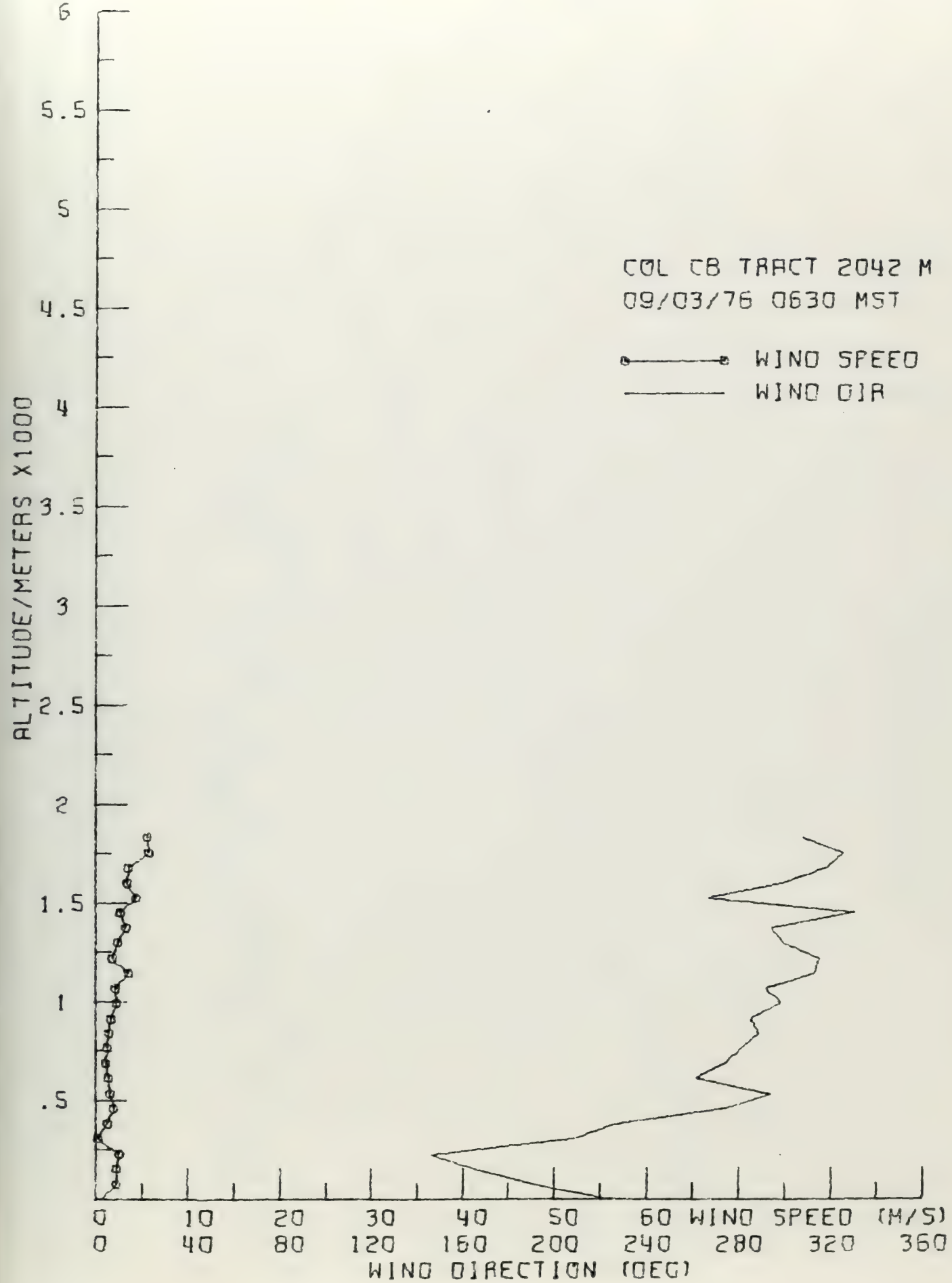
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WIND DIR
ALTITUDE/METERS X1000
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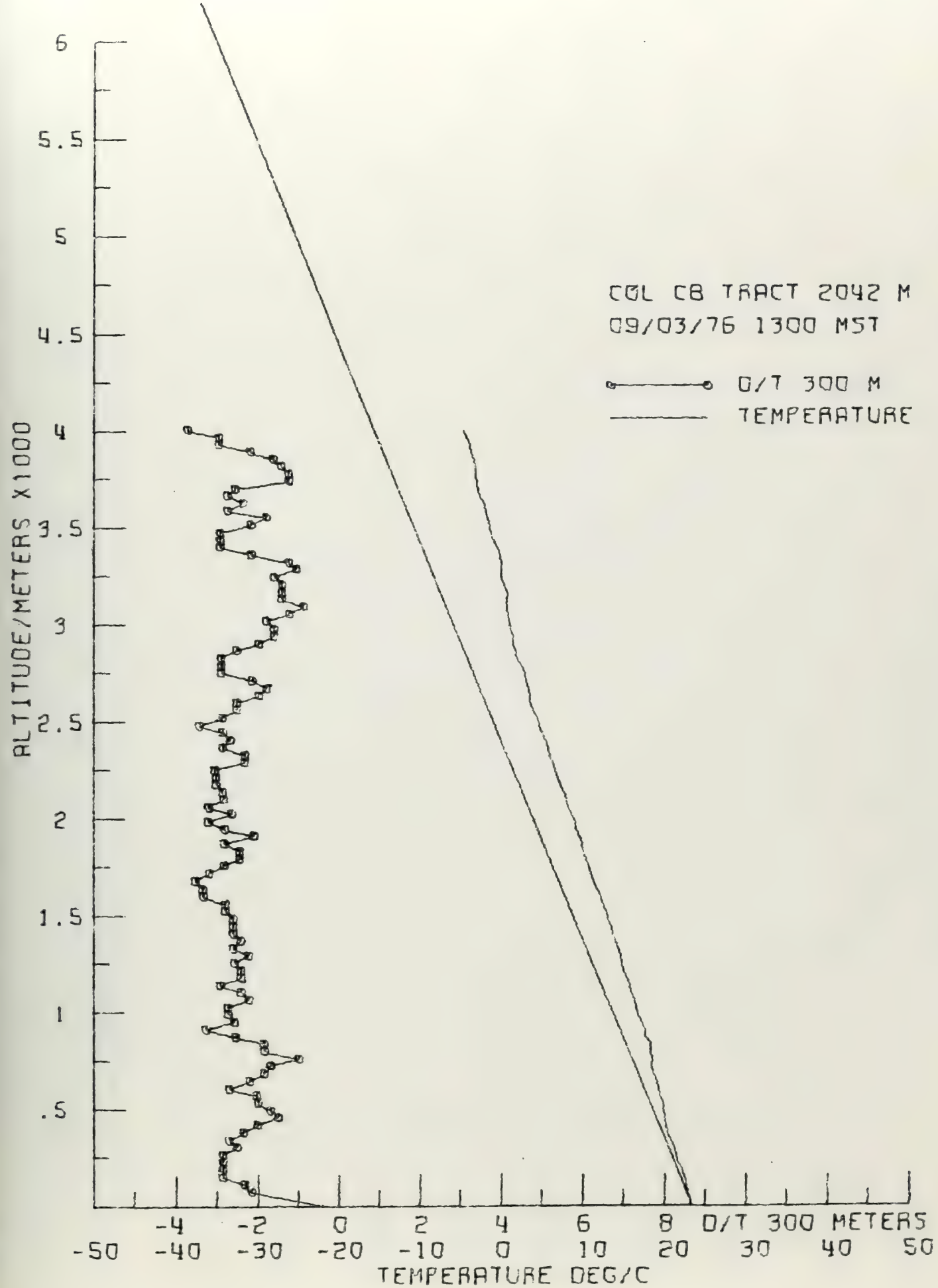
WIND DIRECTION (DEG)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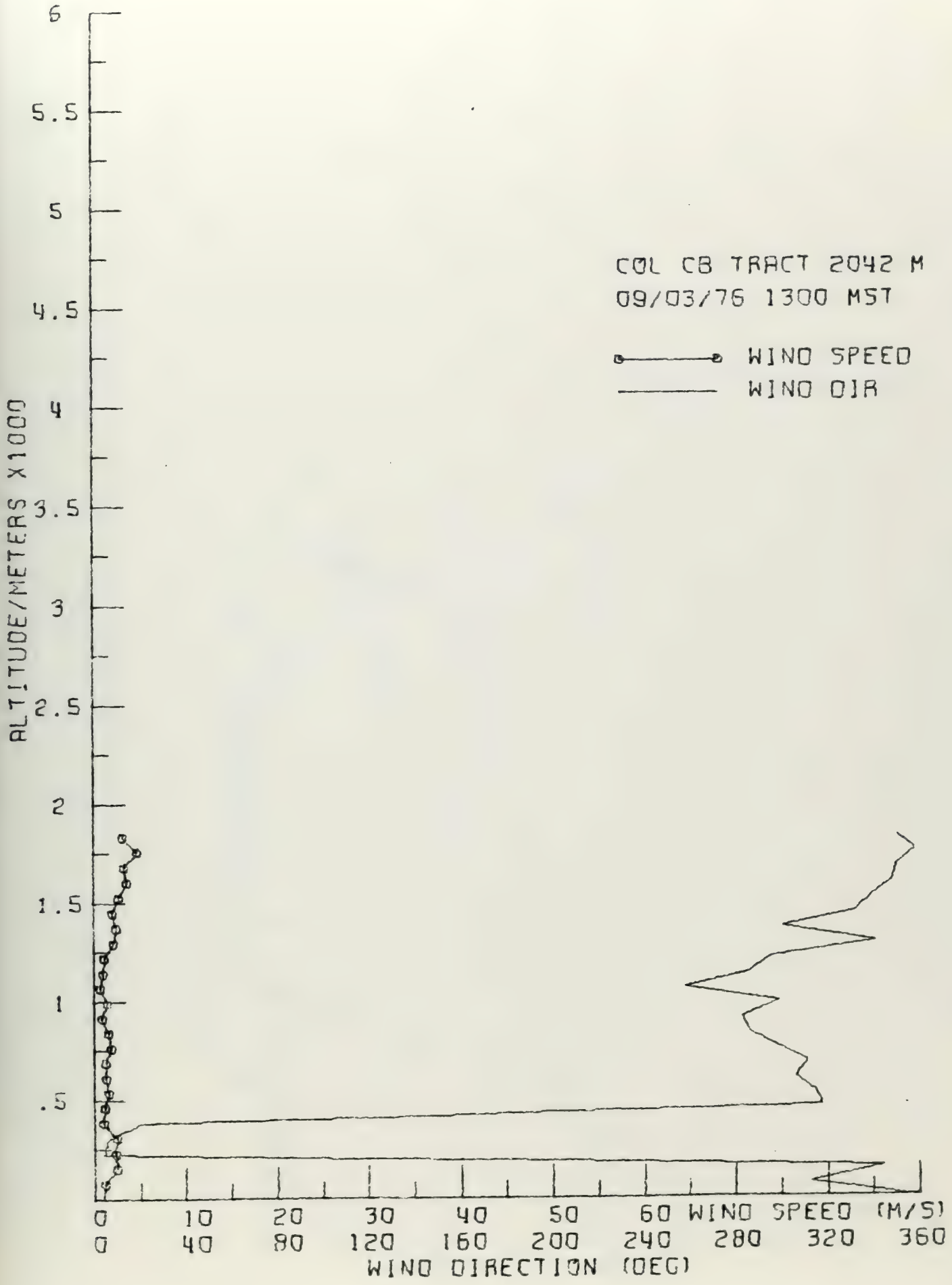
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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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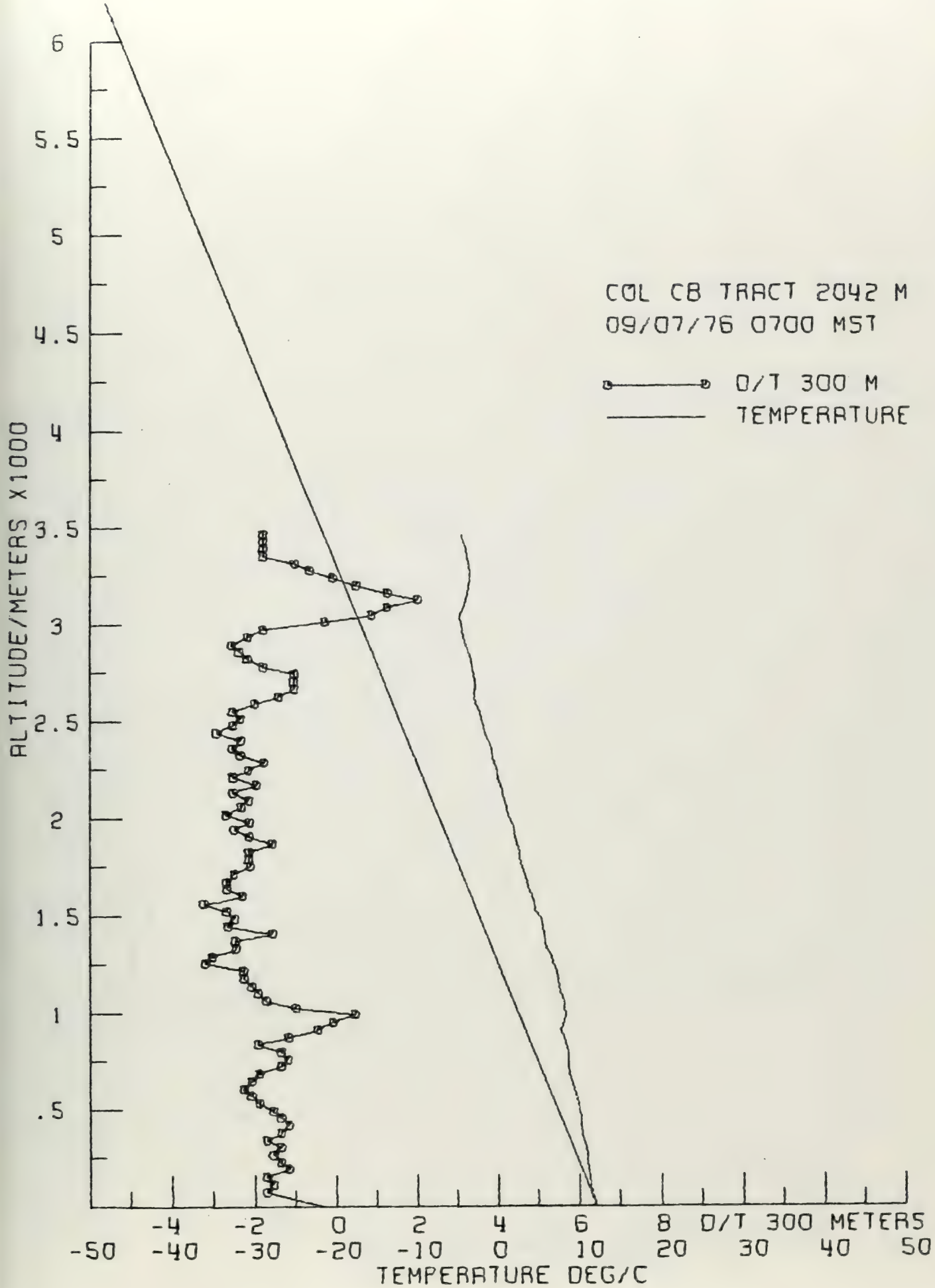
WIND DIRECTION (DEG)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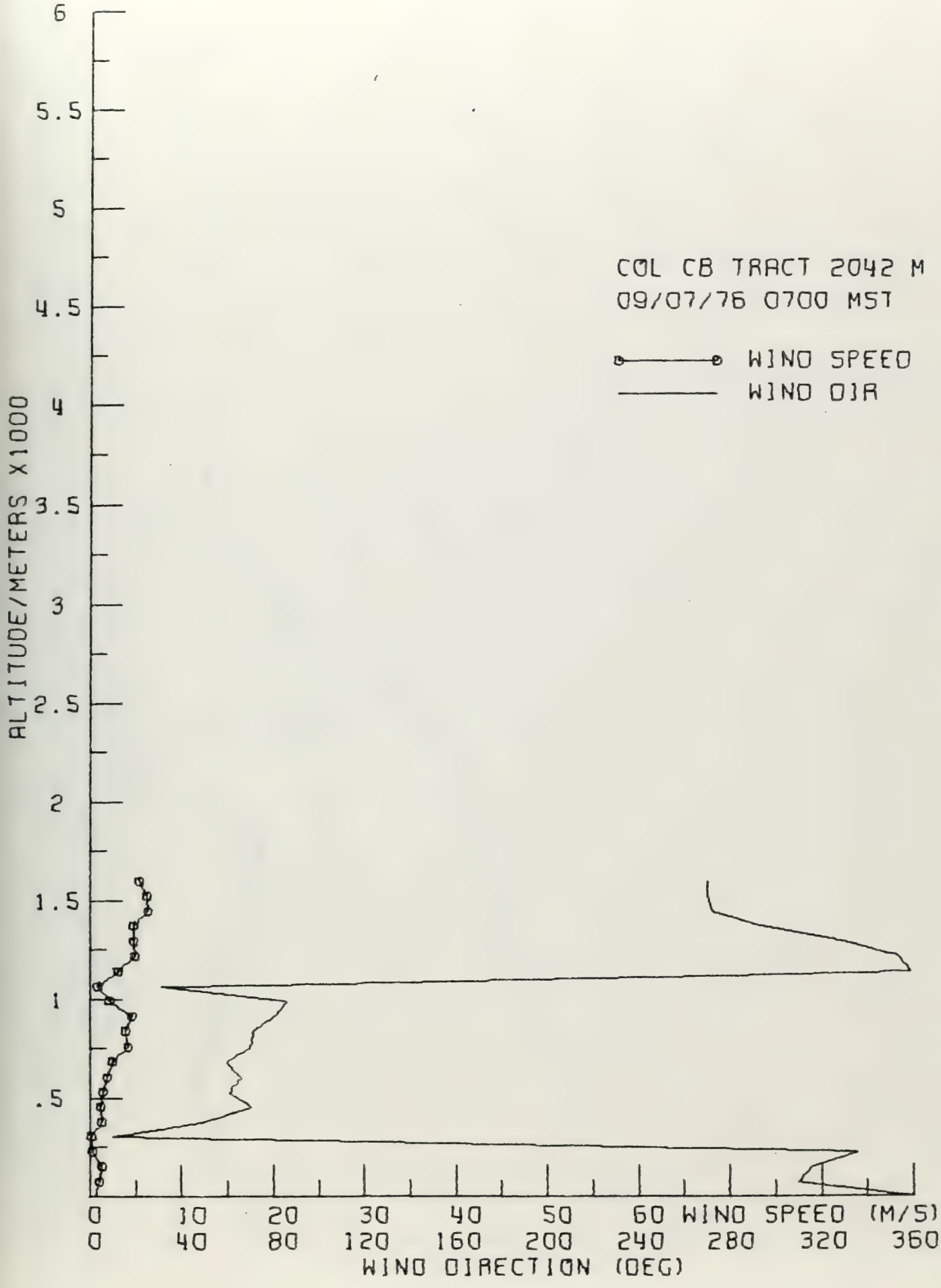
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ALTITUDE/METERS X1000
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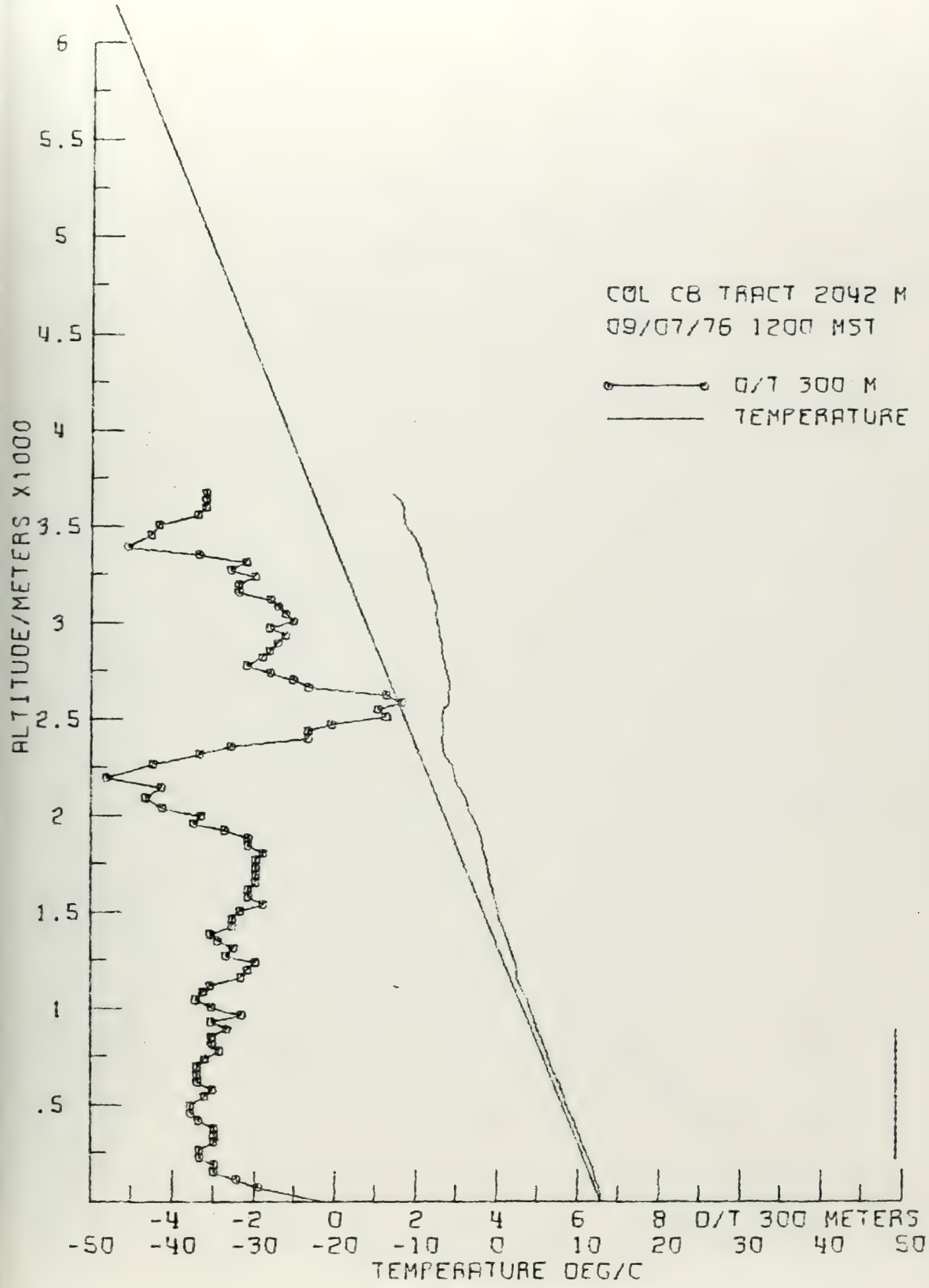
WIND DIRECTION (DEG)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D/T 300 M
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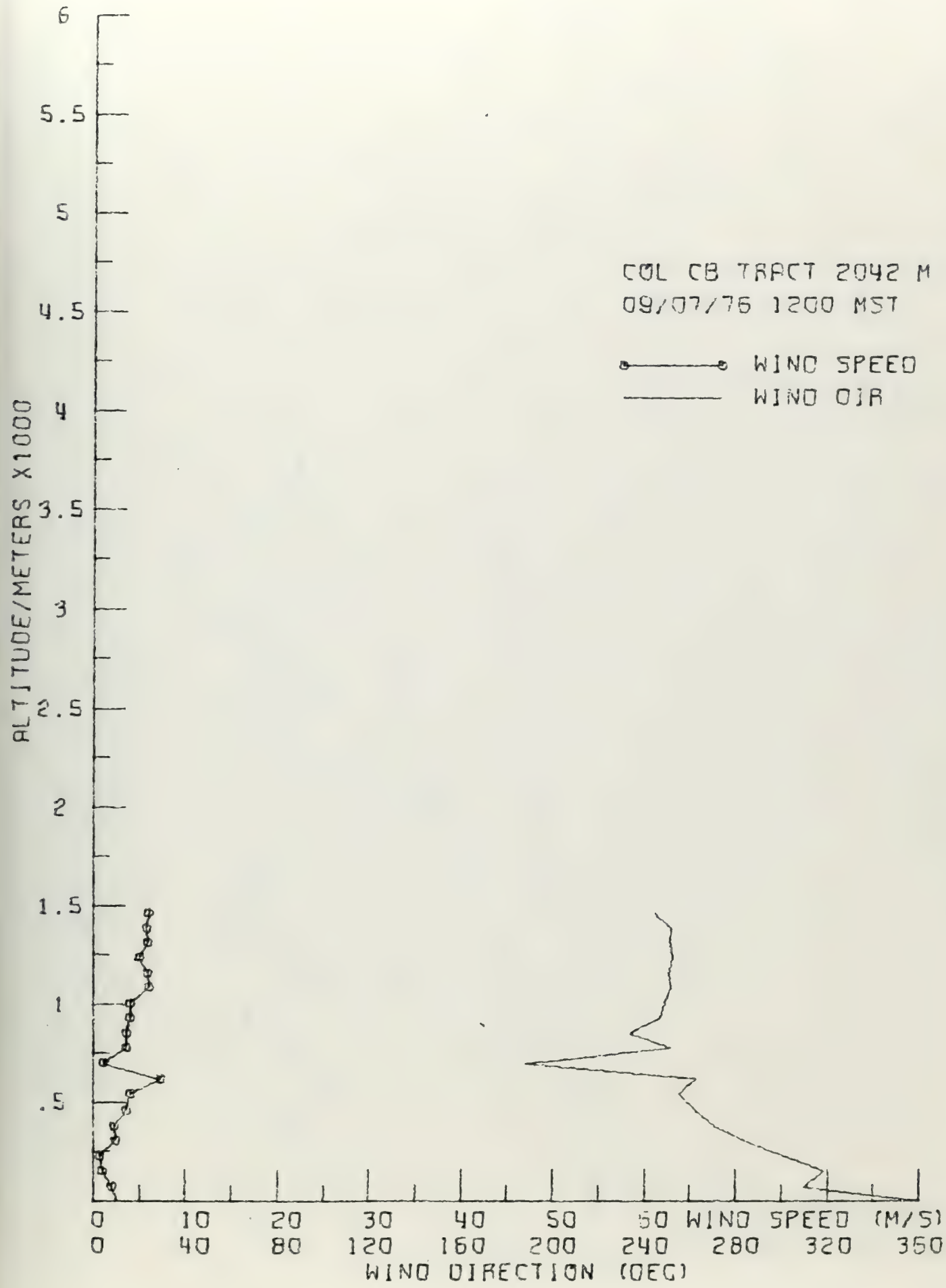
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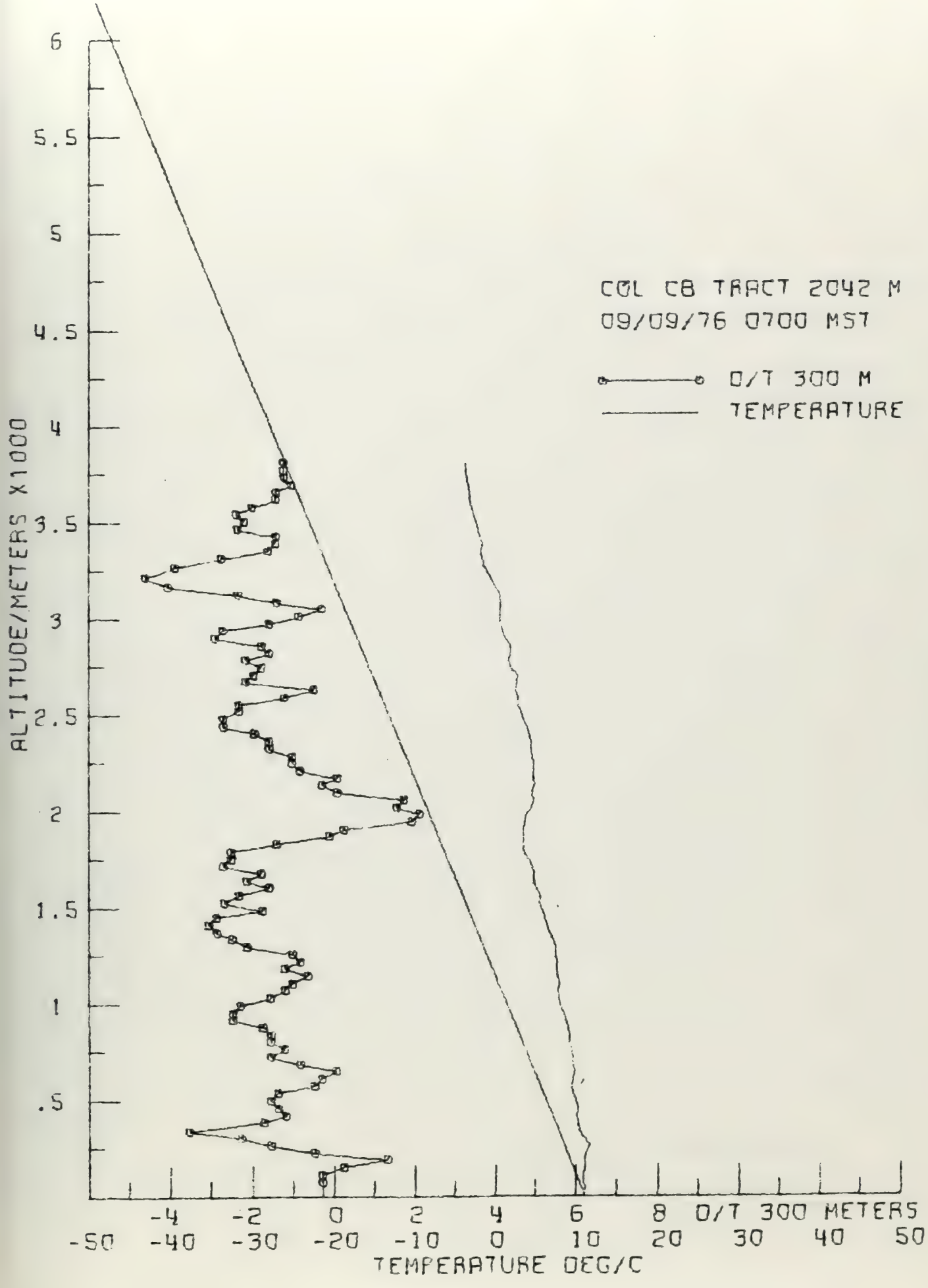
WIND DIRECTION (DEG)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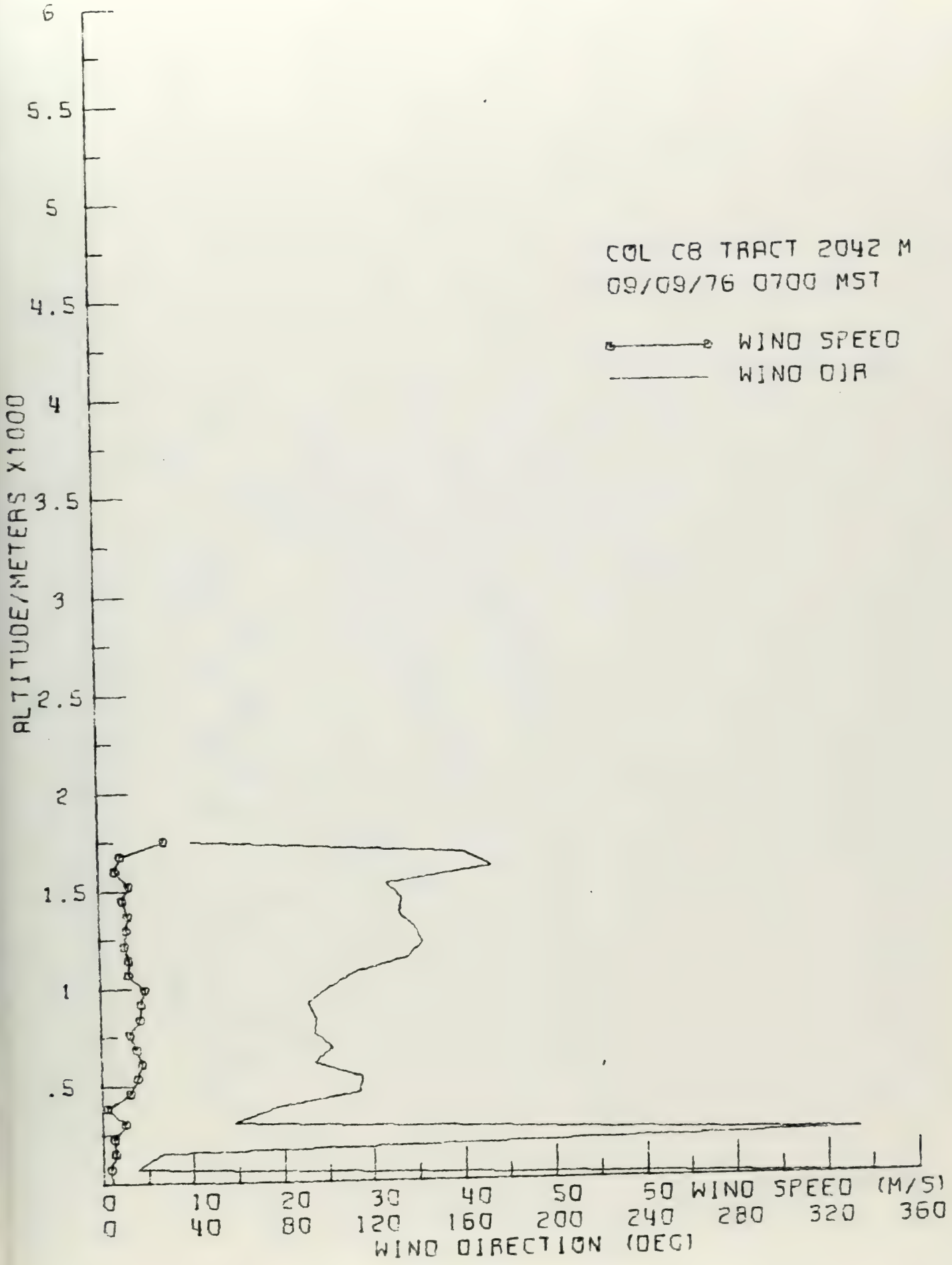
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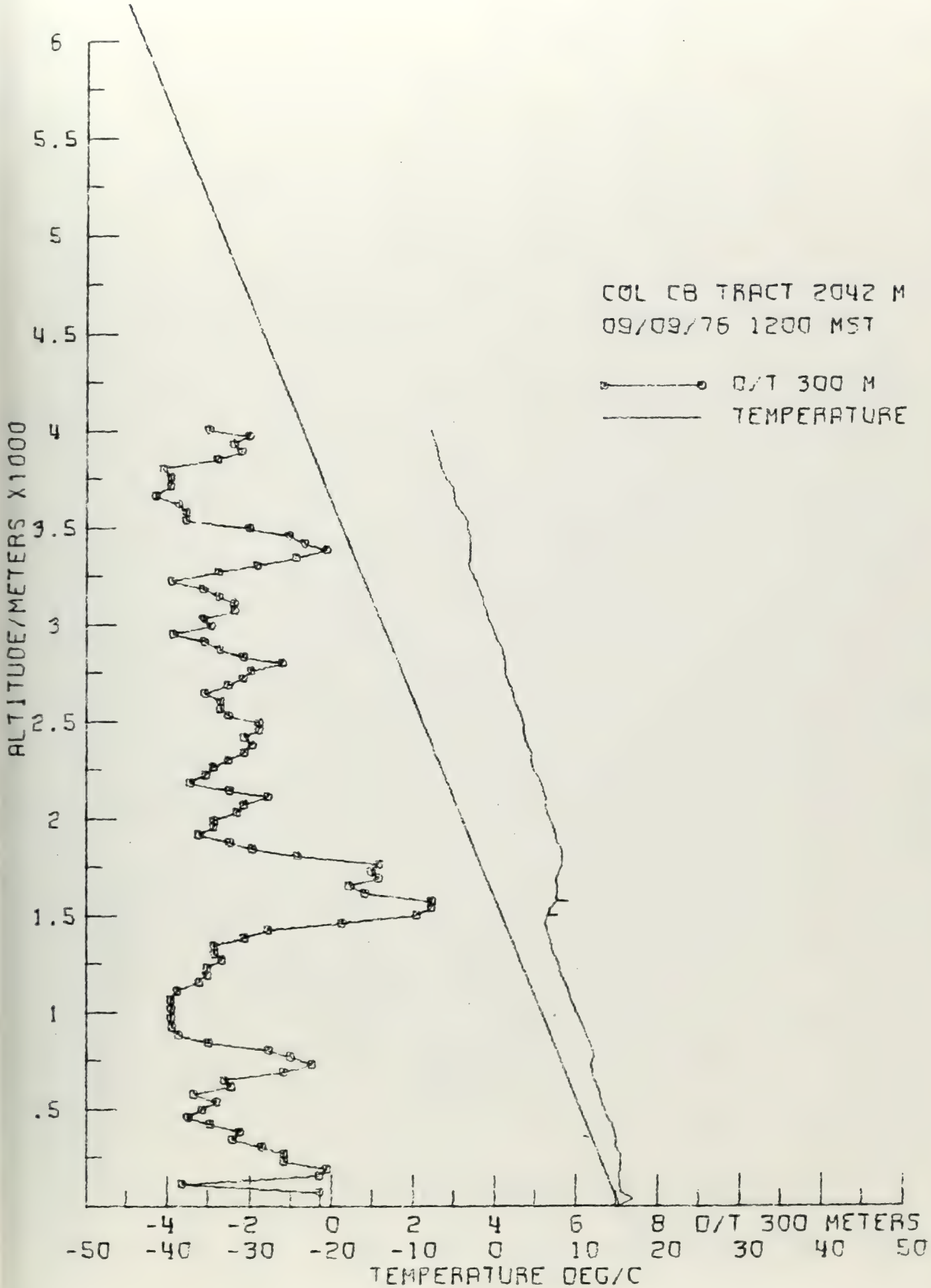
WIND DIRECTION (DEG)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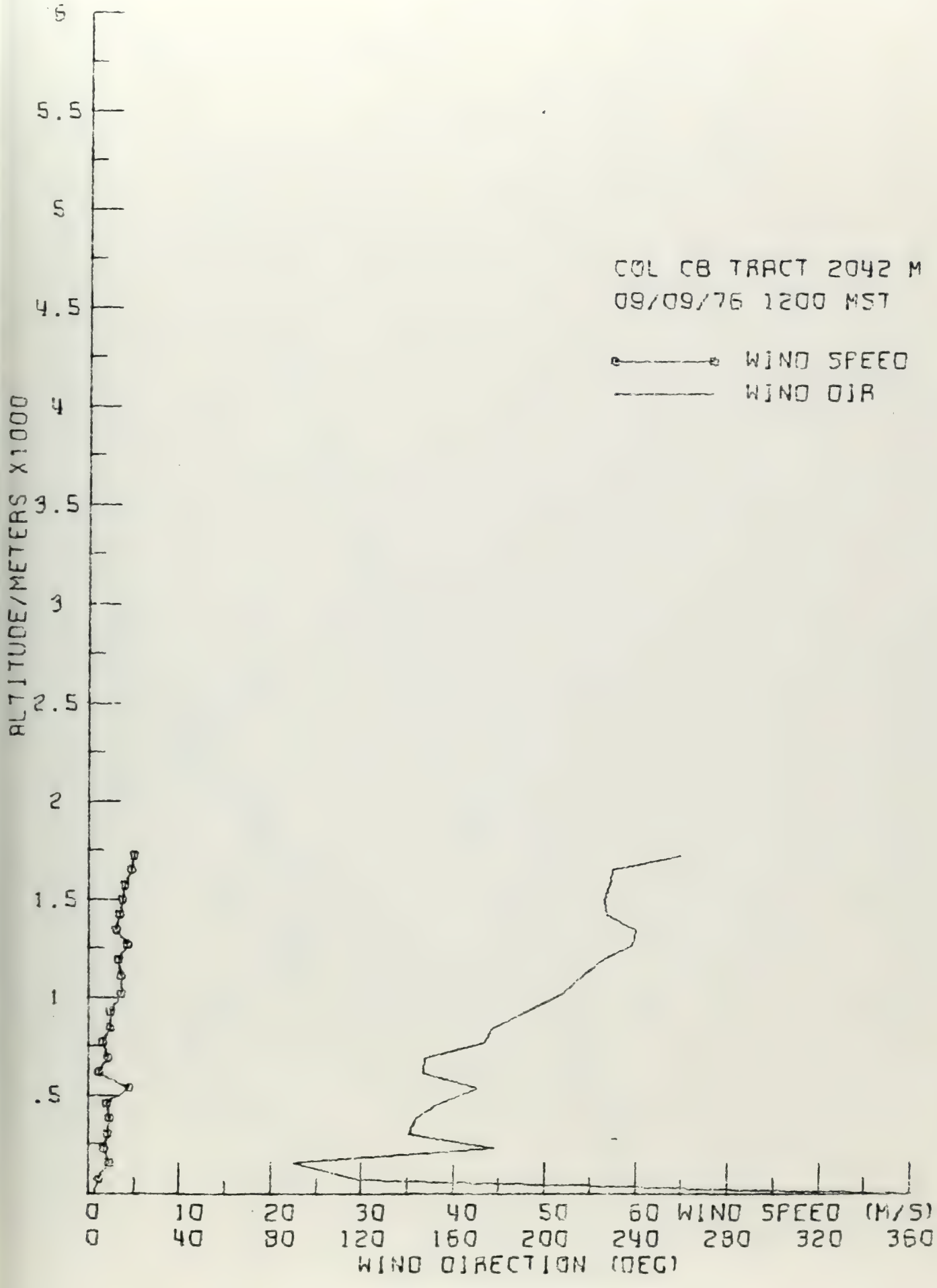
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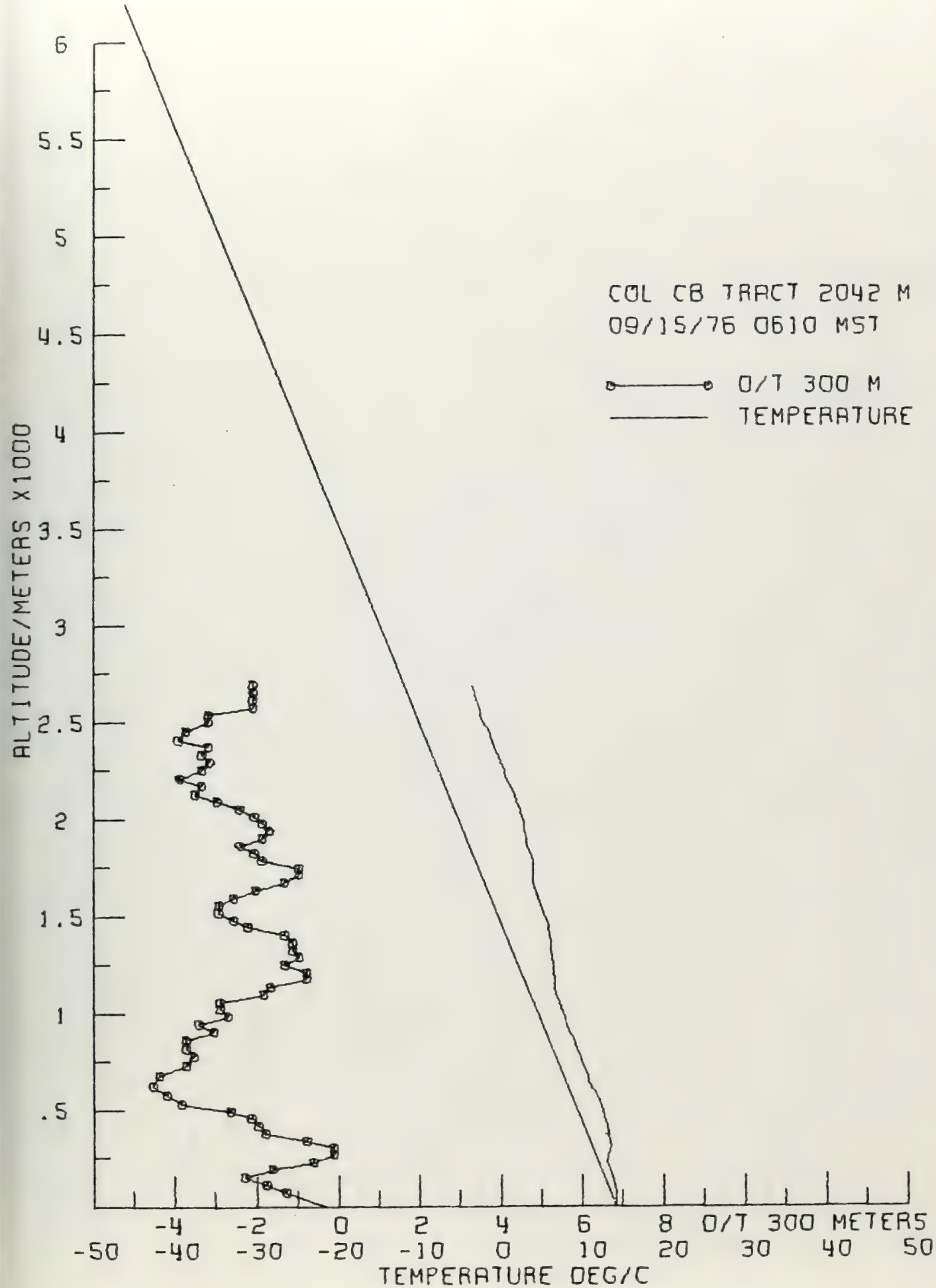
WIND DIRECTION (DEG)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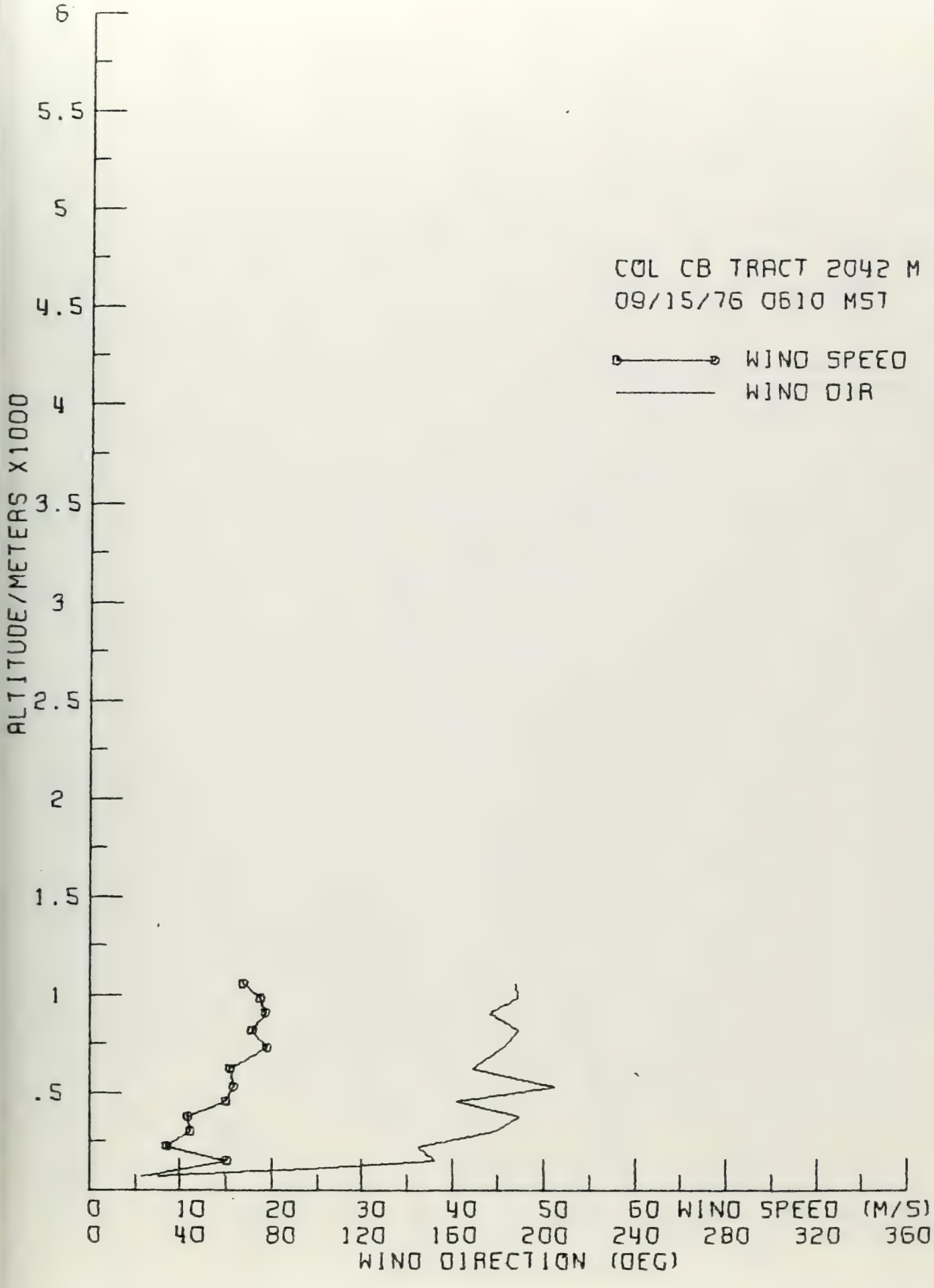
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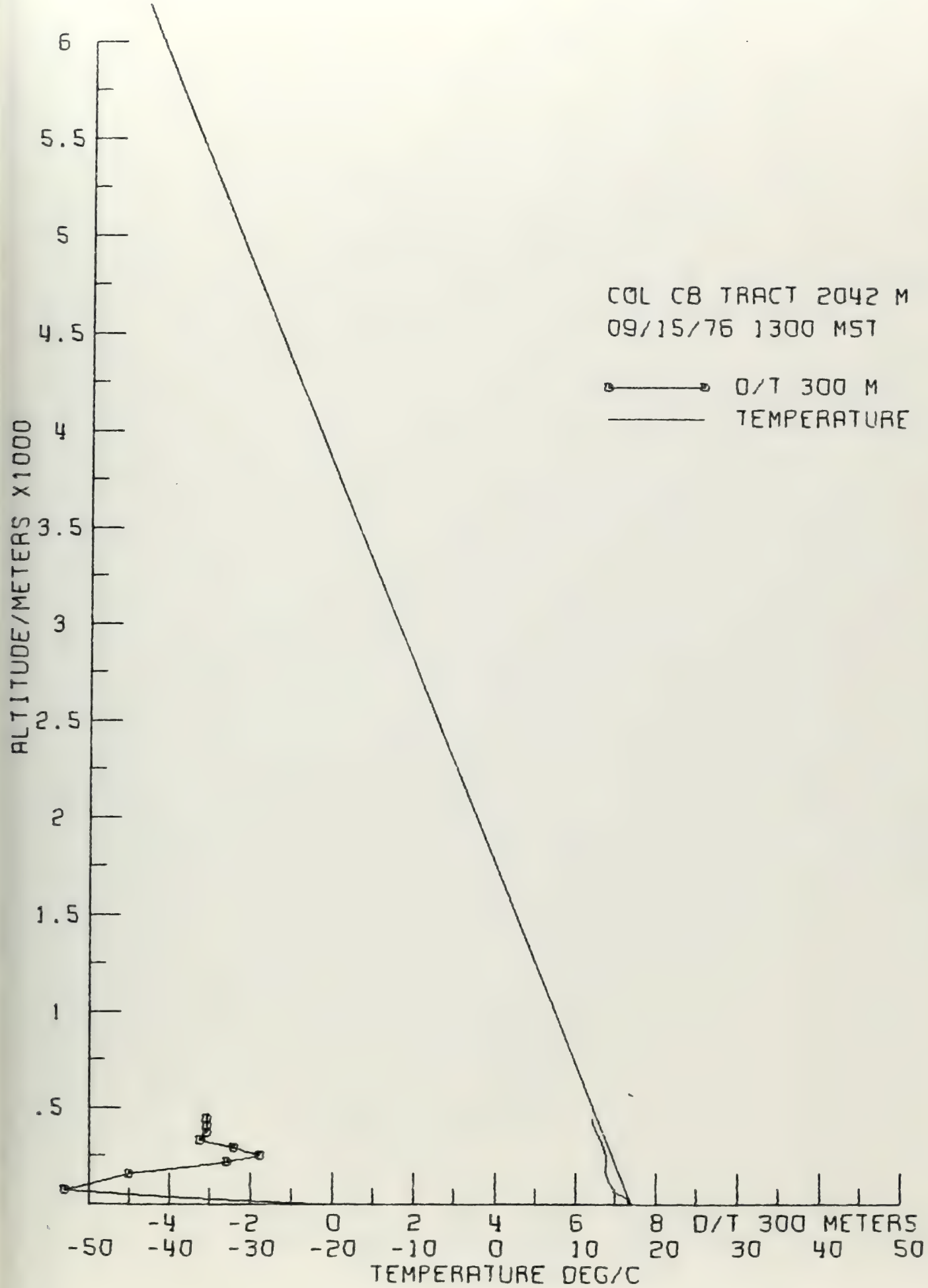
WIND DIRECTION (DEG)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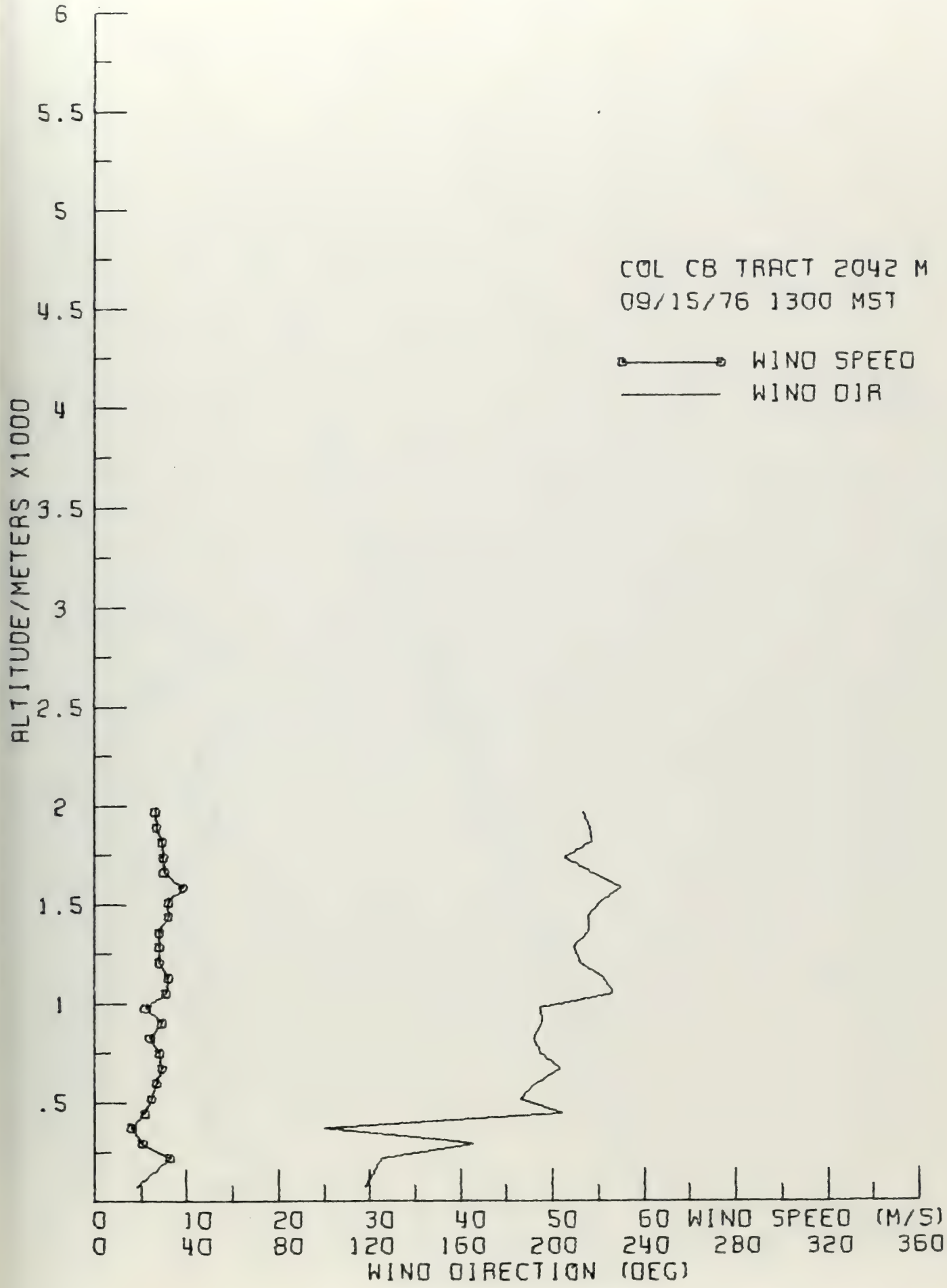
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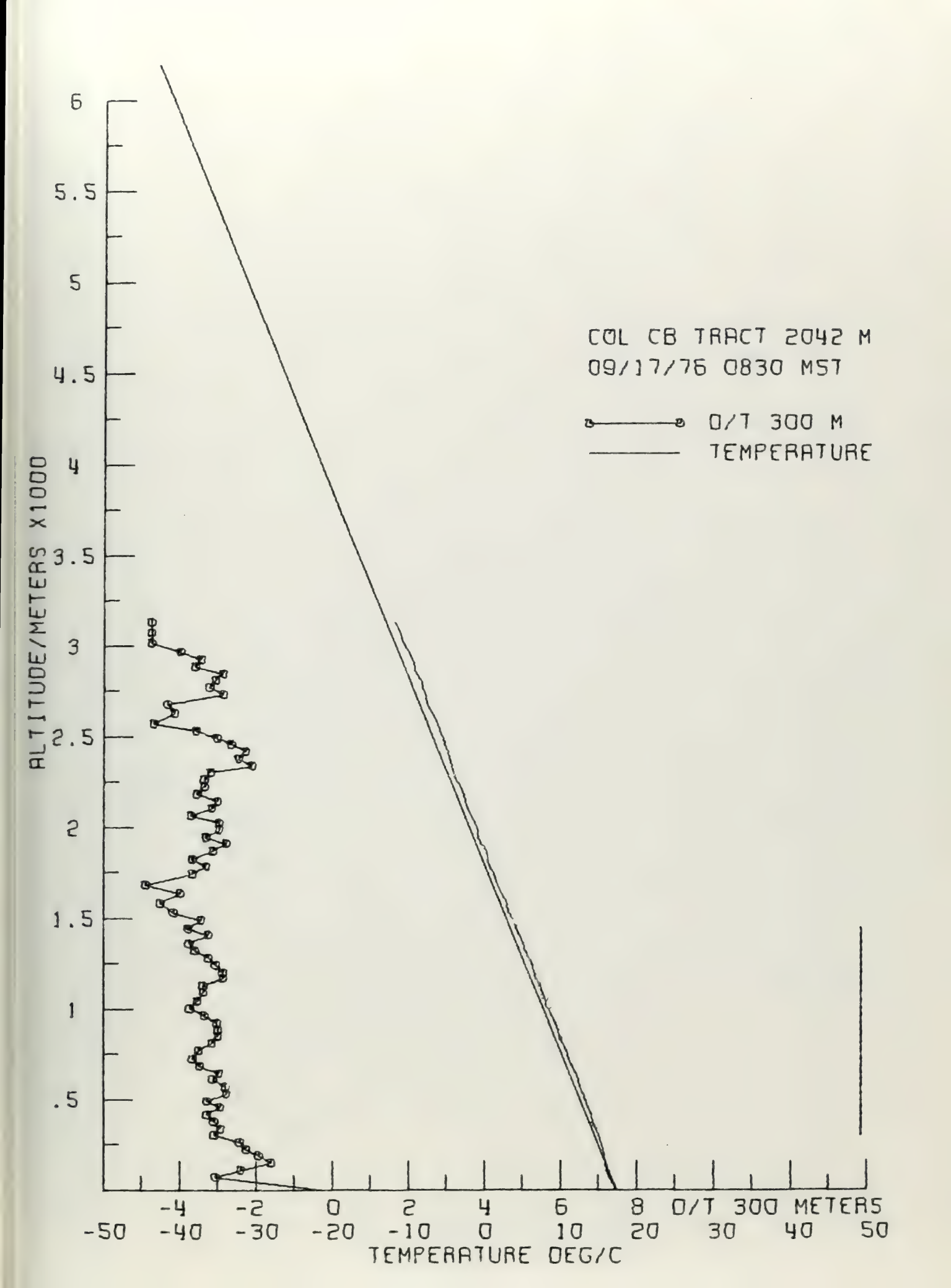
WIND DIRECTION (DEG)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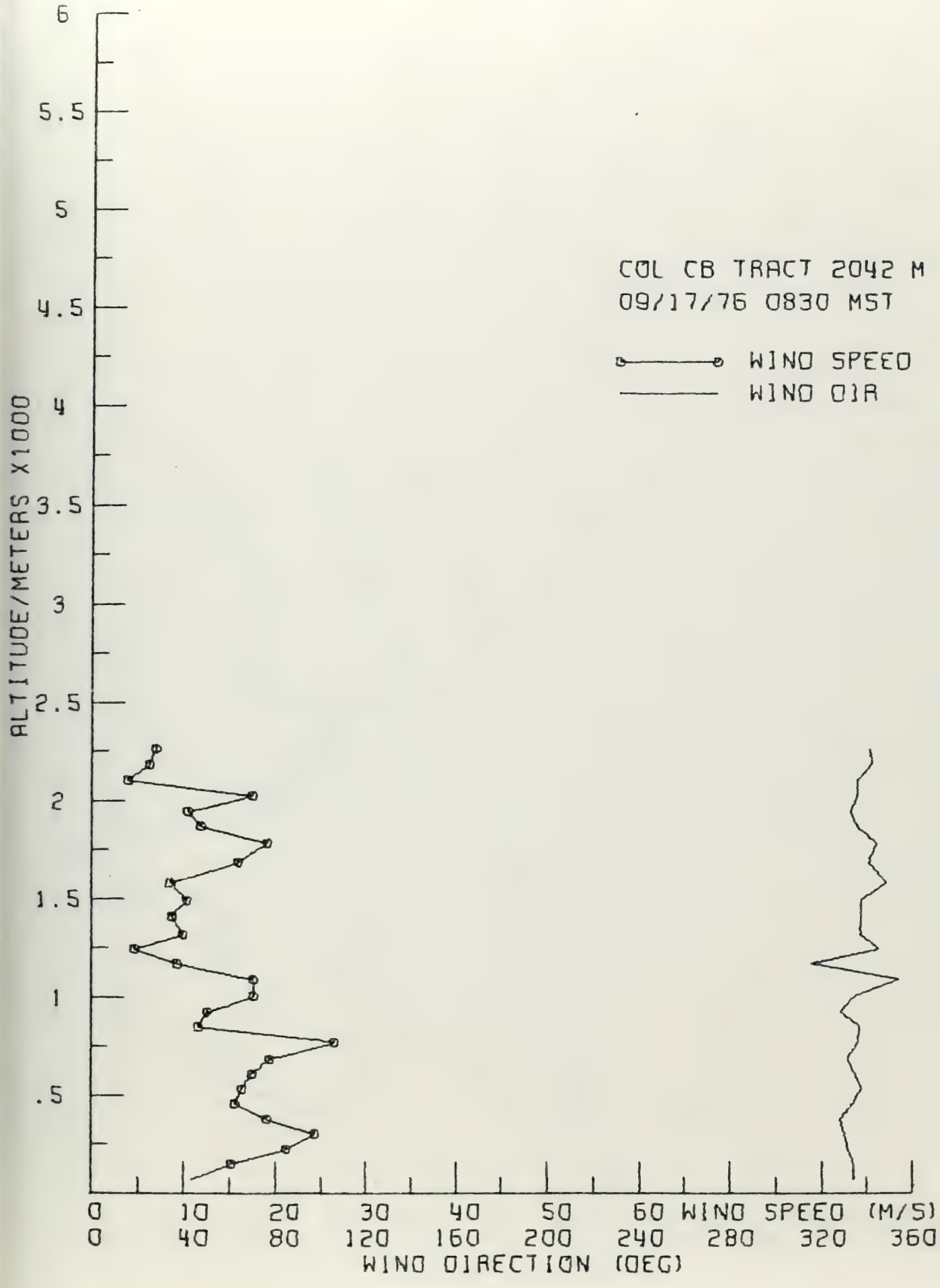
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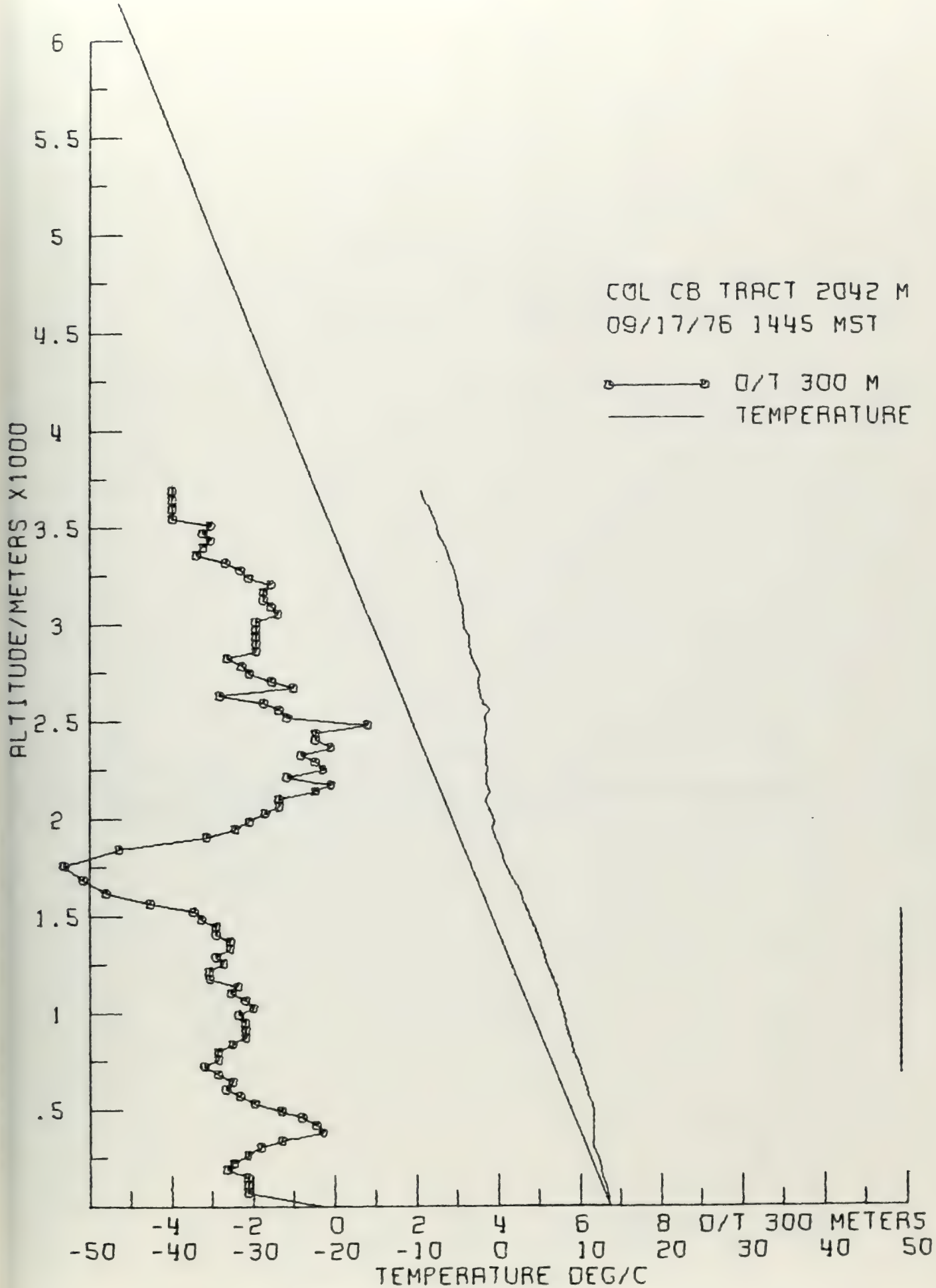
WIND DIRECTION (DEG)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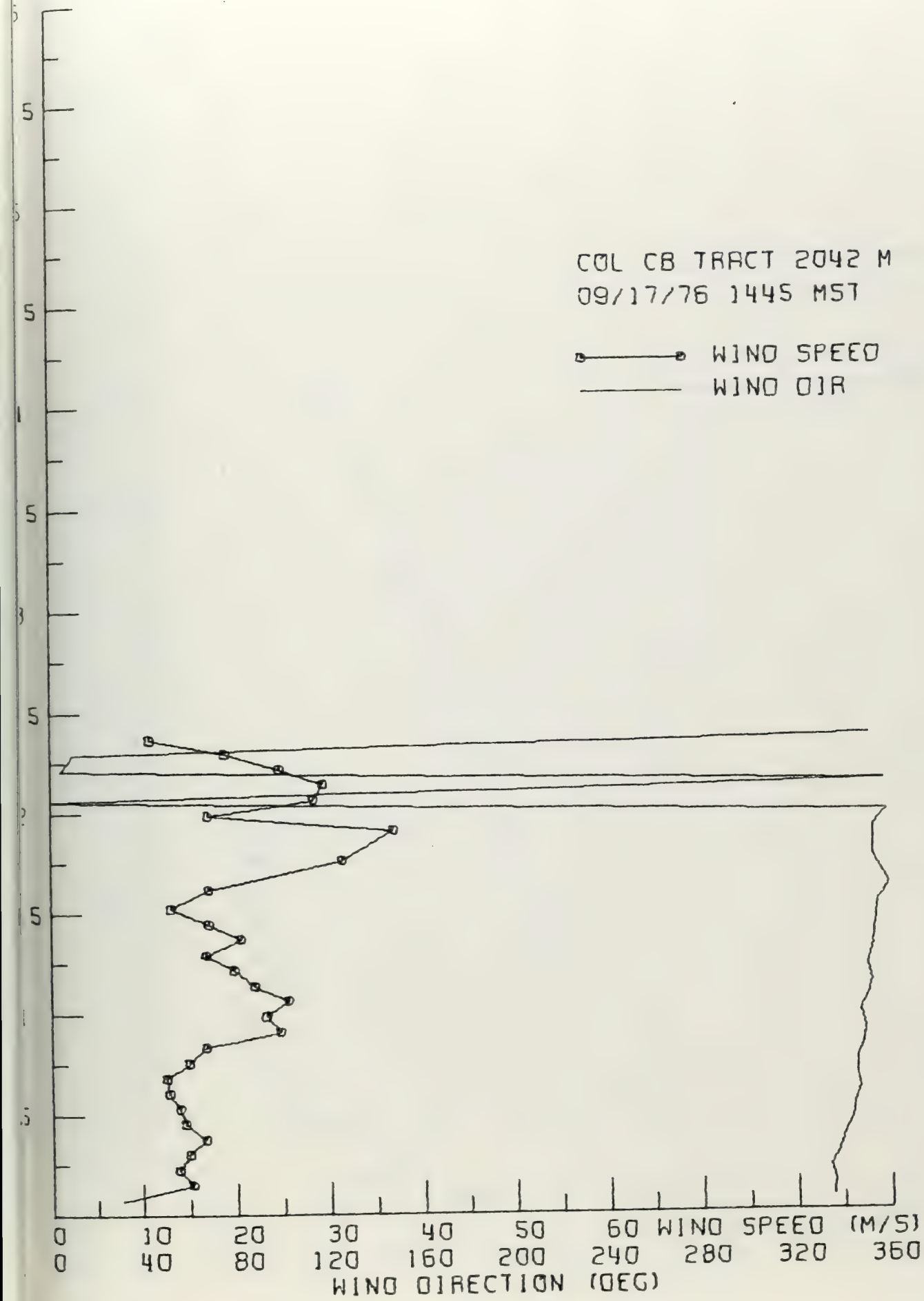
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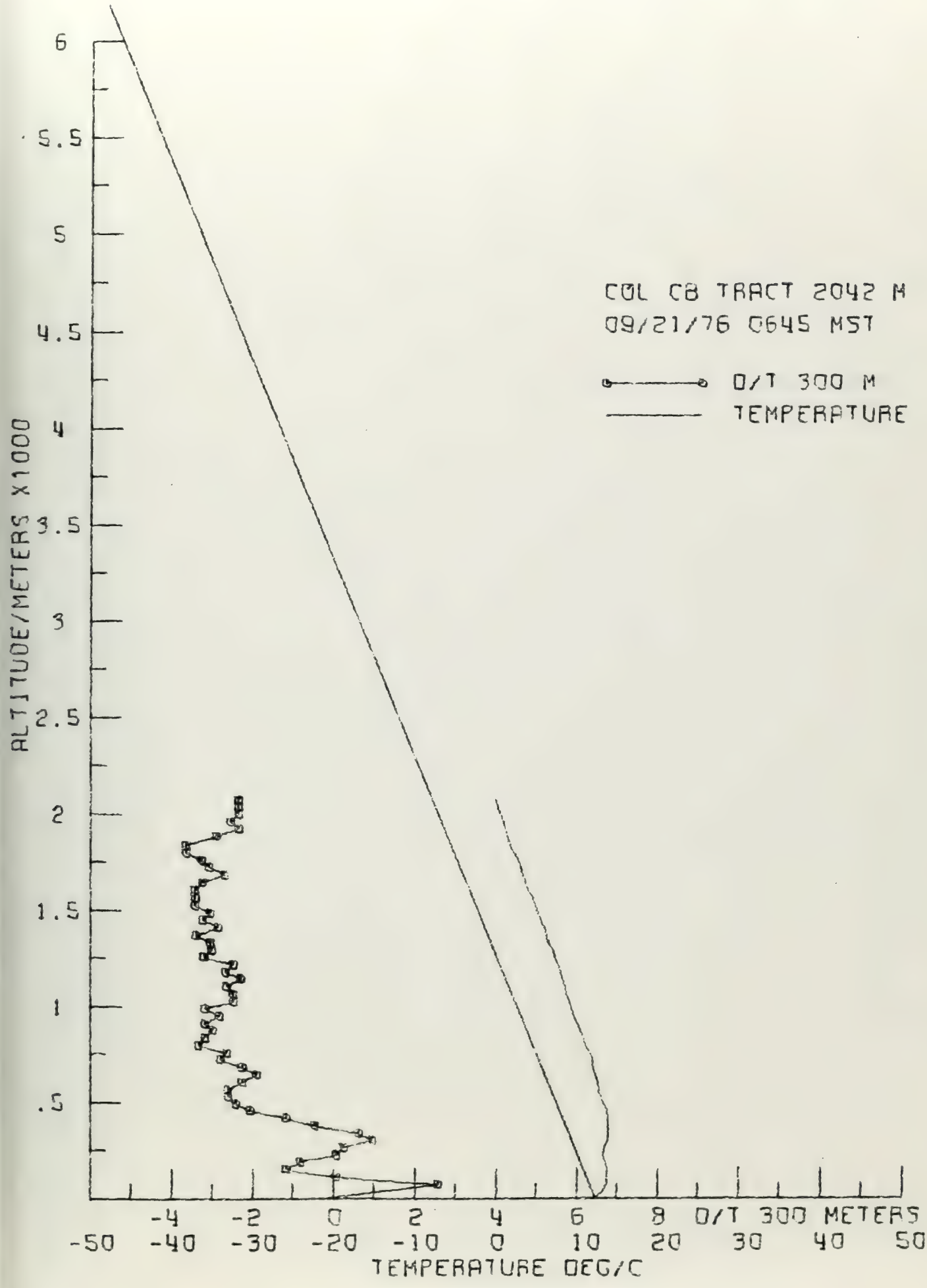
WIND DIRECTION (DEG)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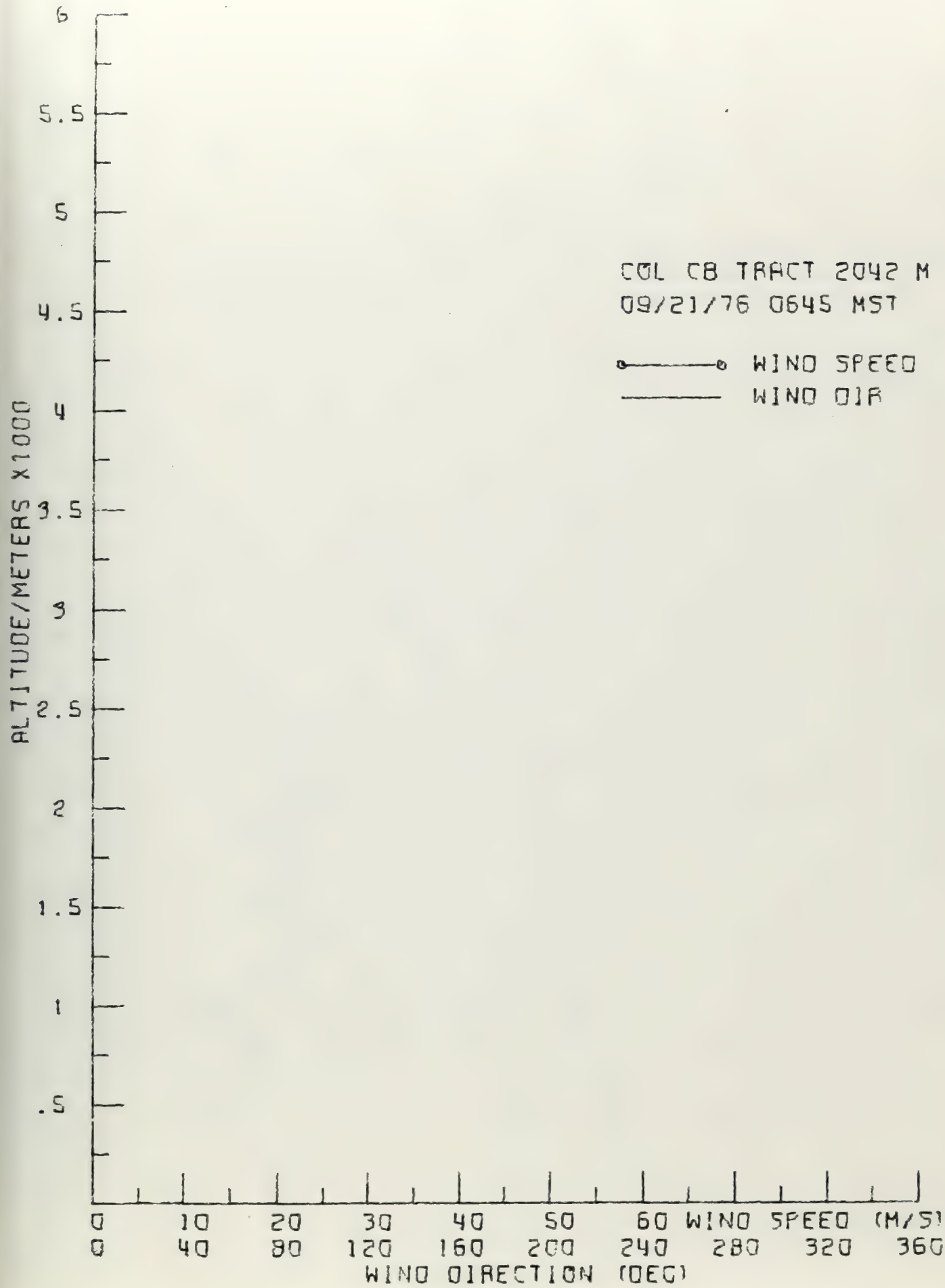
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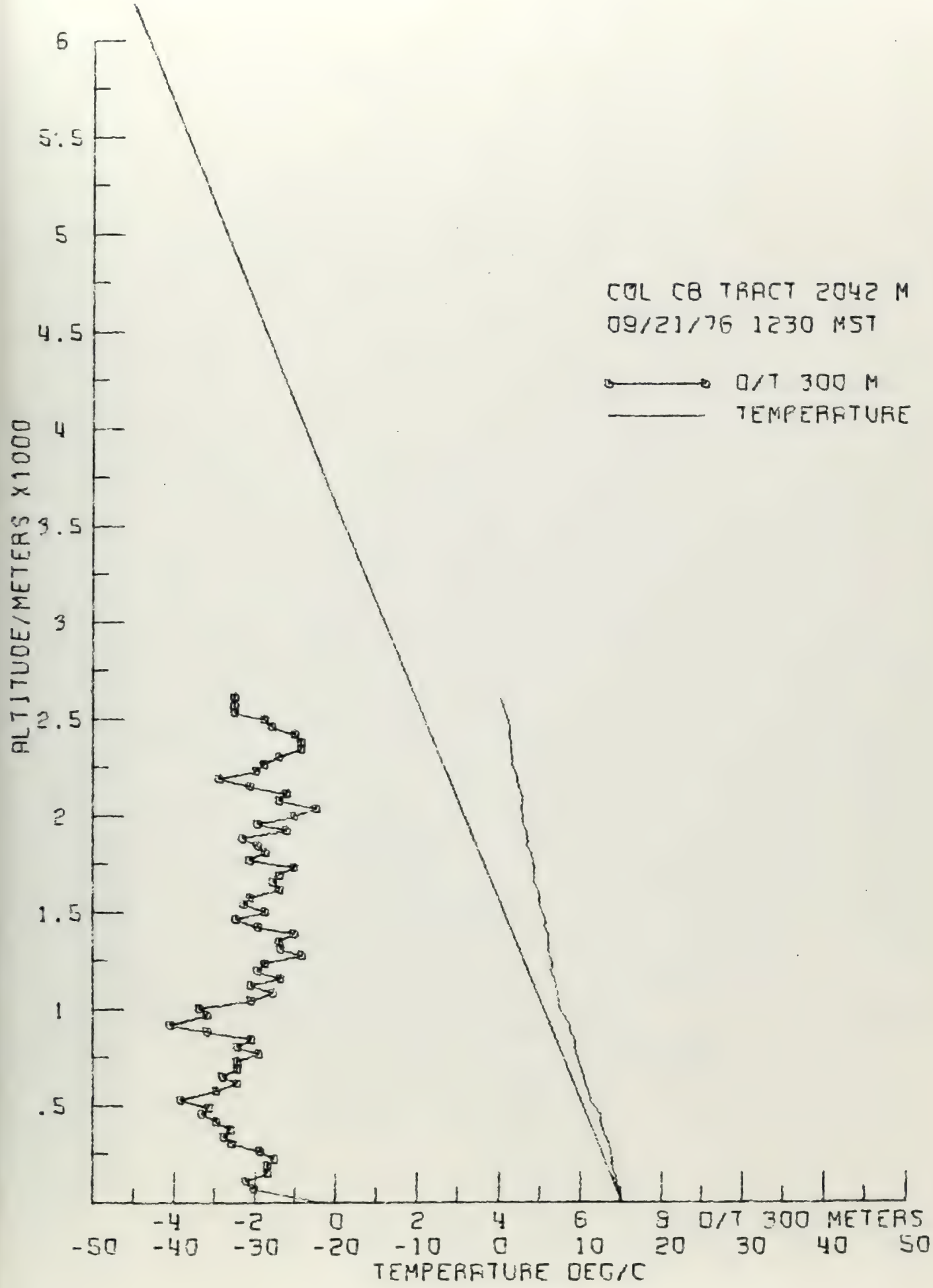
WIND DIRECTION (DEG)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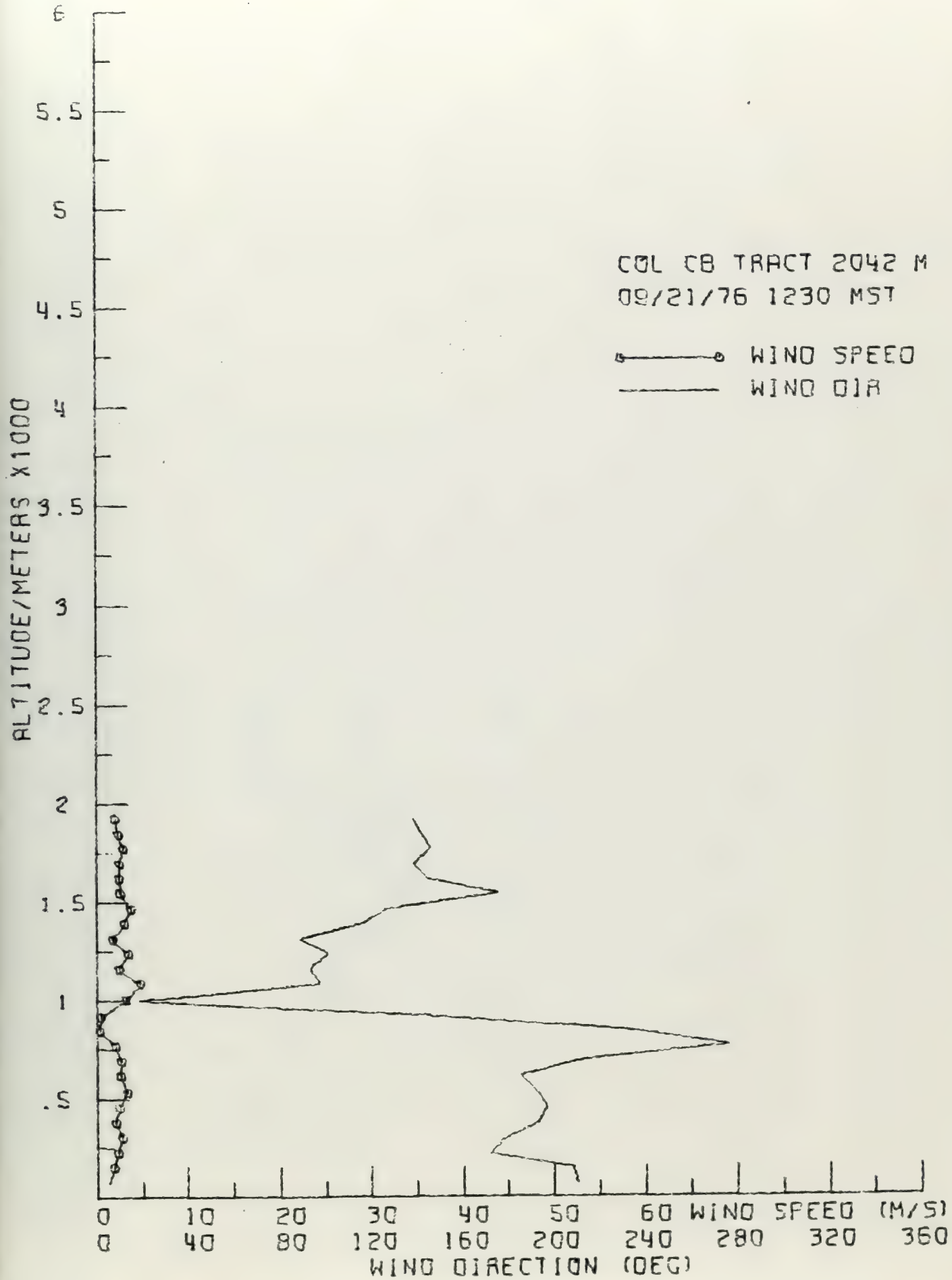
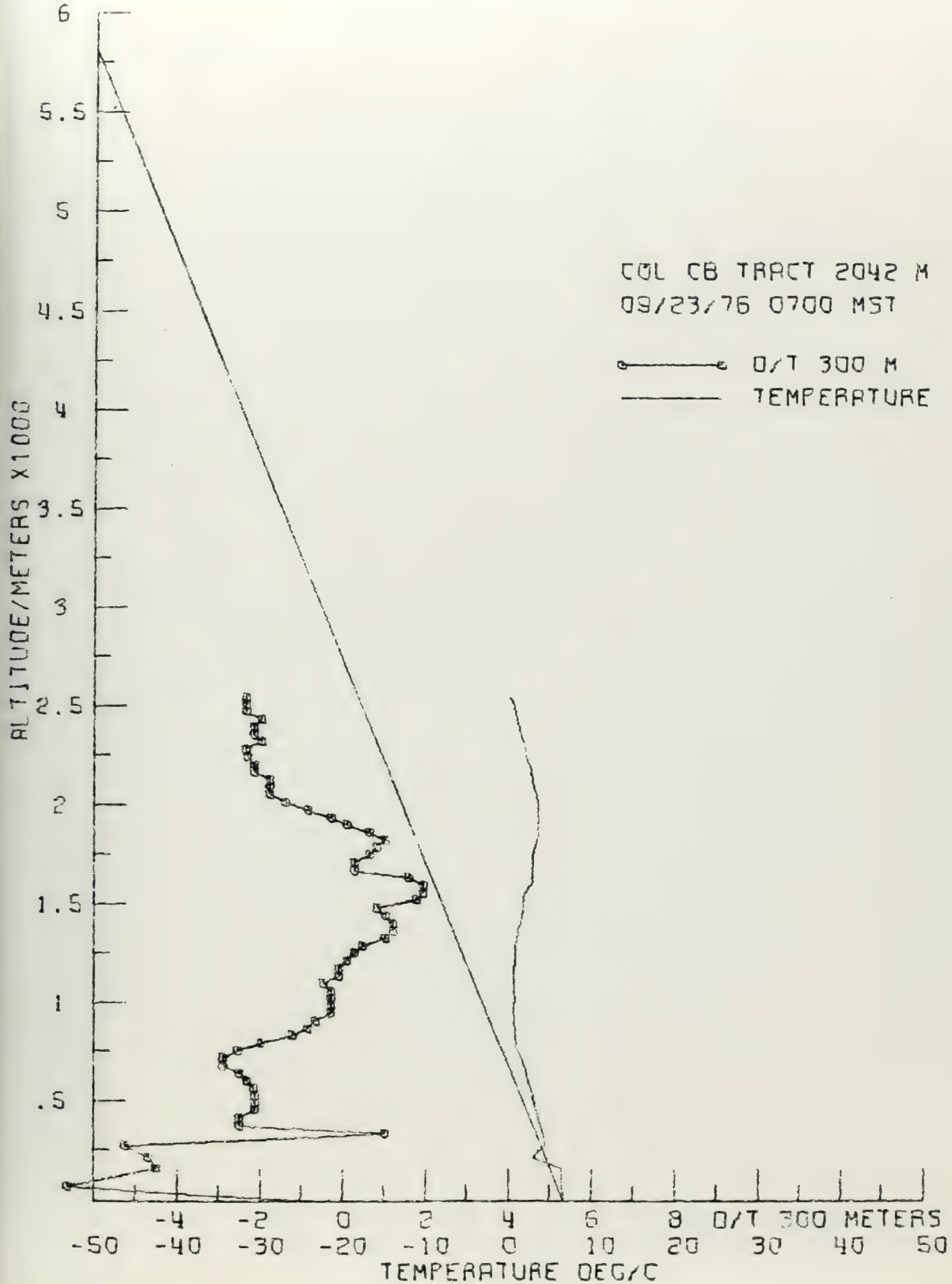
TEMPERATURE DEG/C


COL CB TRACT 2042 M
09/21/76 1230 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
09/23/76 0700 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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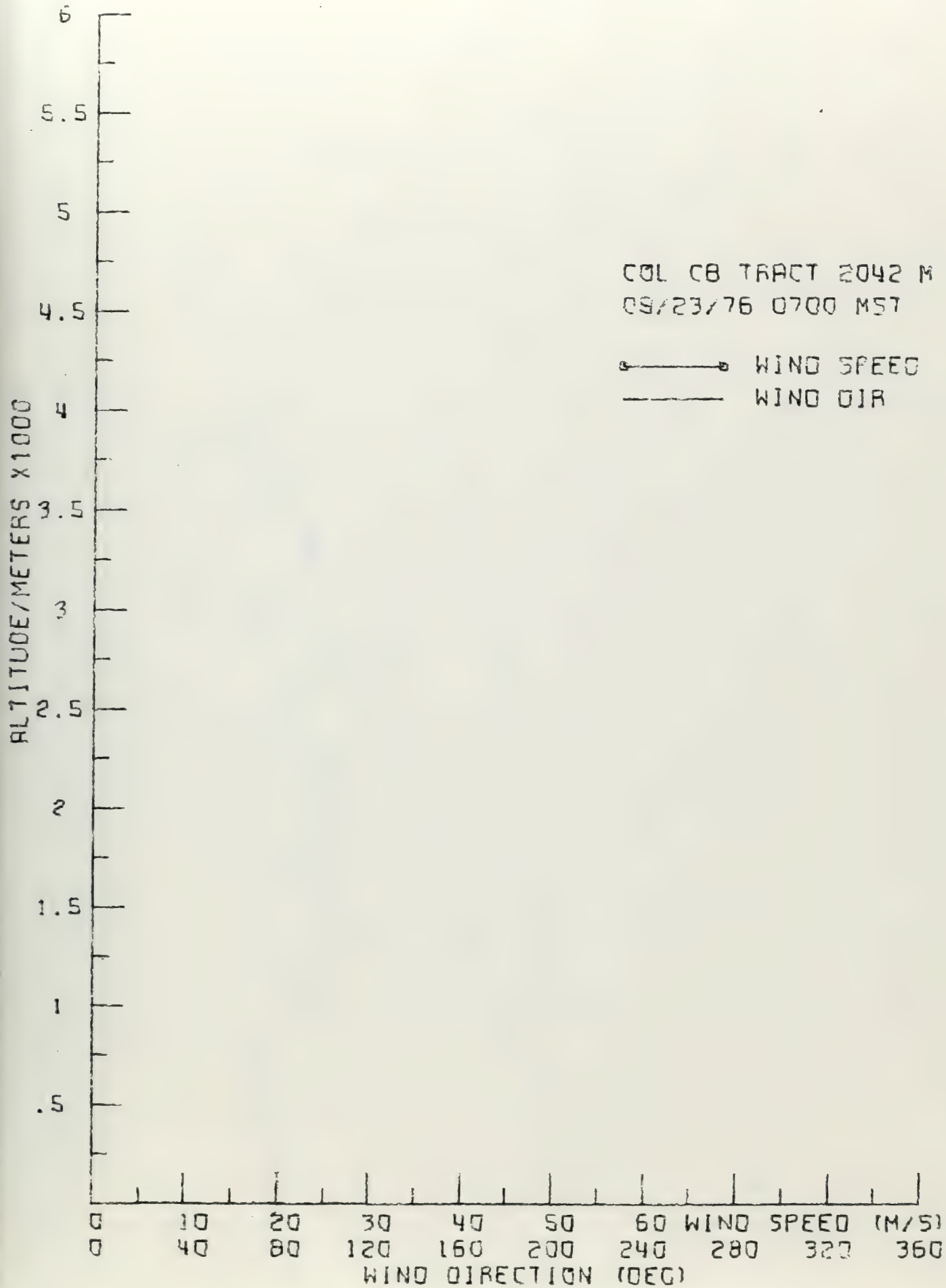
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C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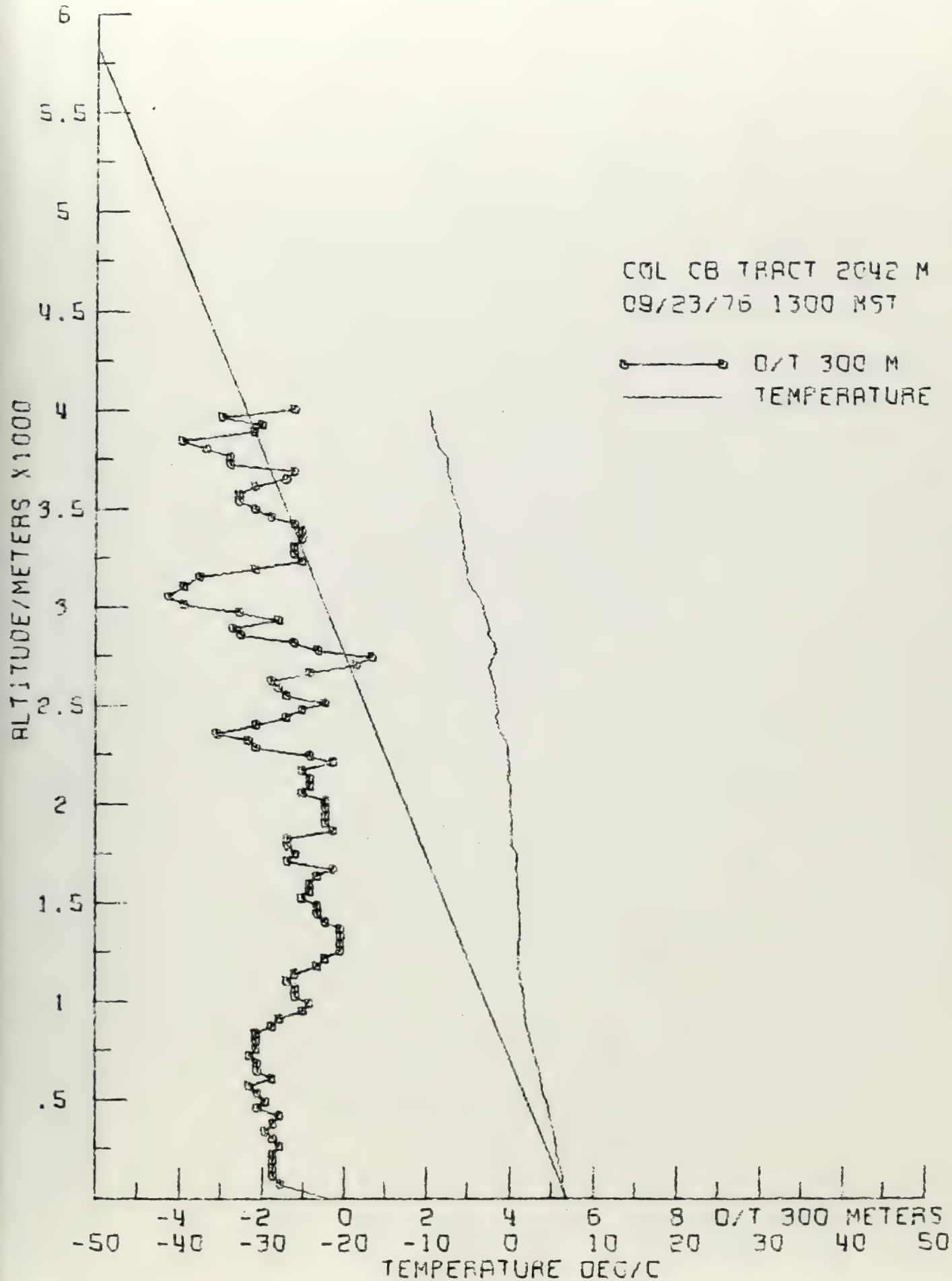
09/23/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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09/23/76 1300 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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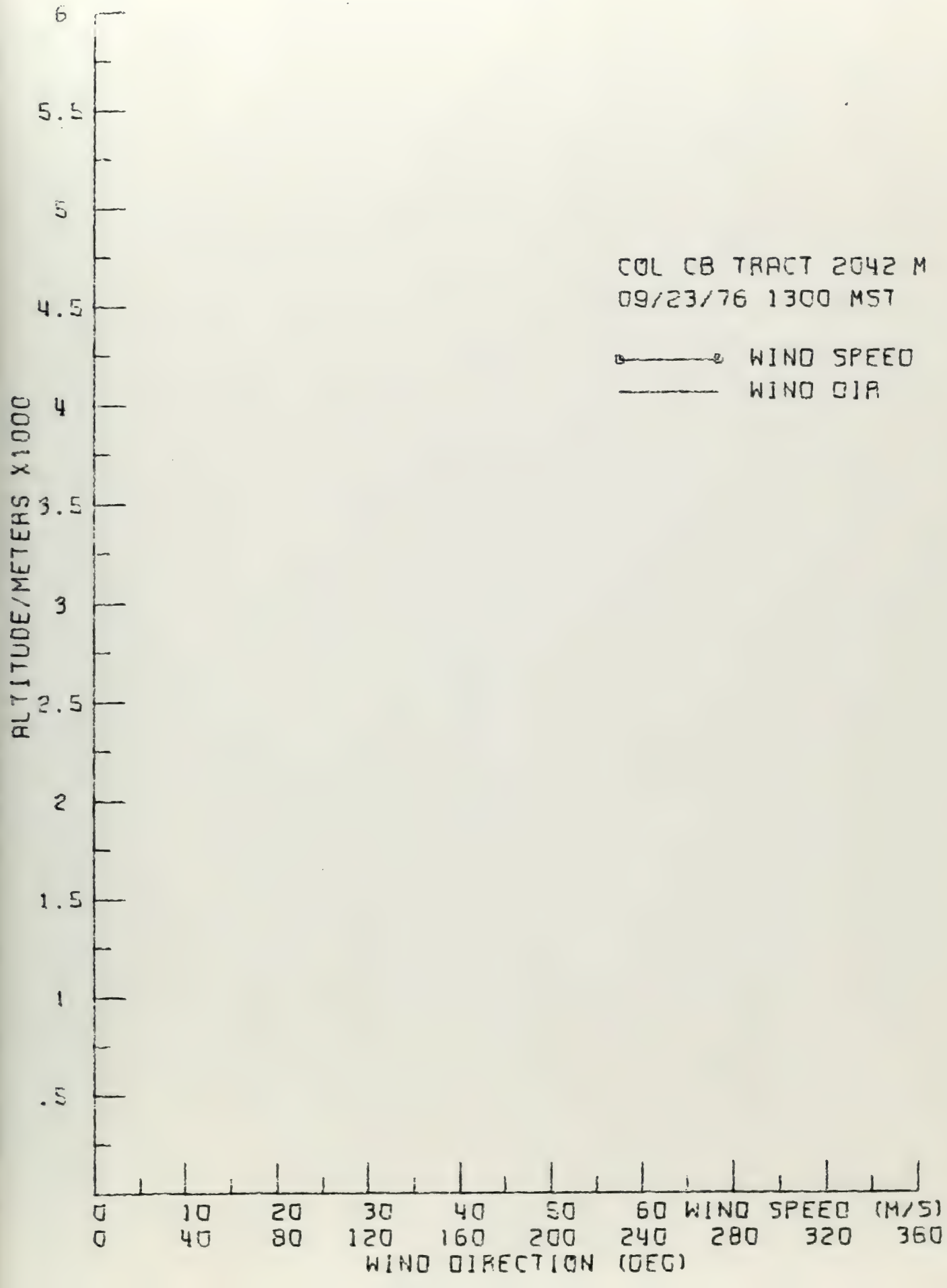
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C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09/23/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
5
4.5
4
3.5
3
2.5
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1.5
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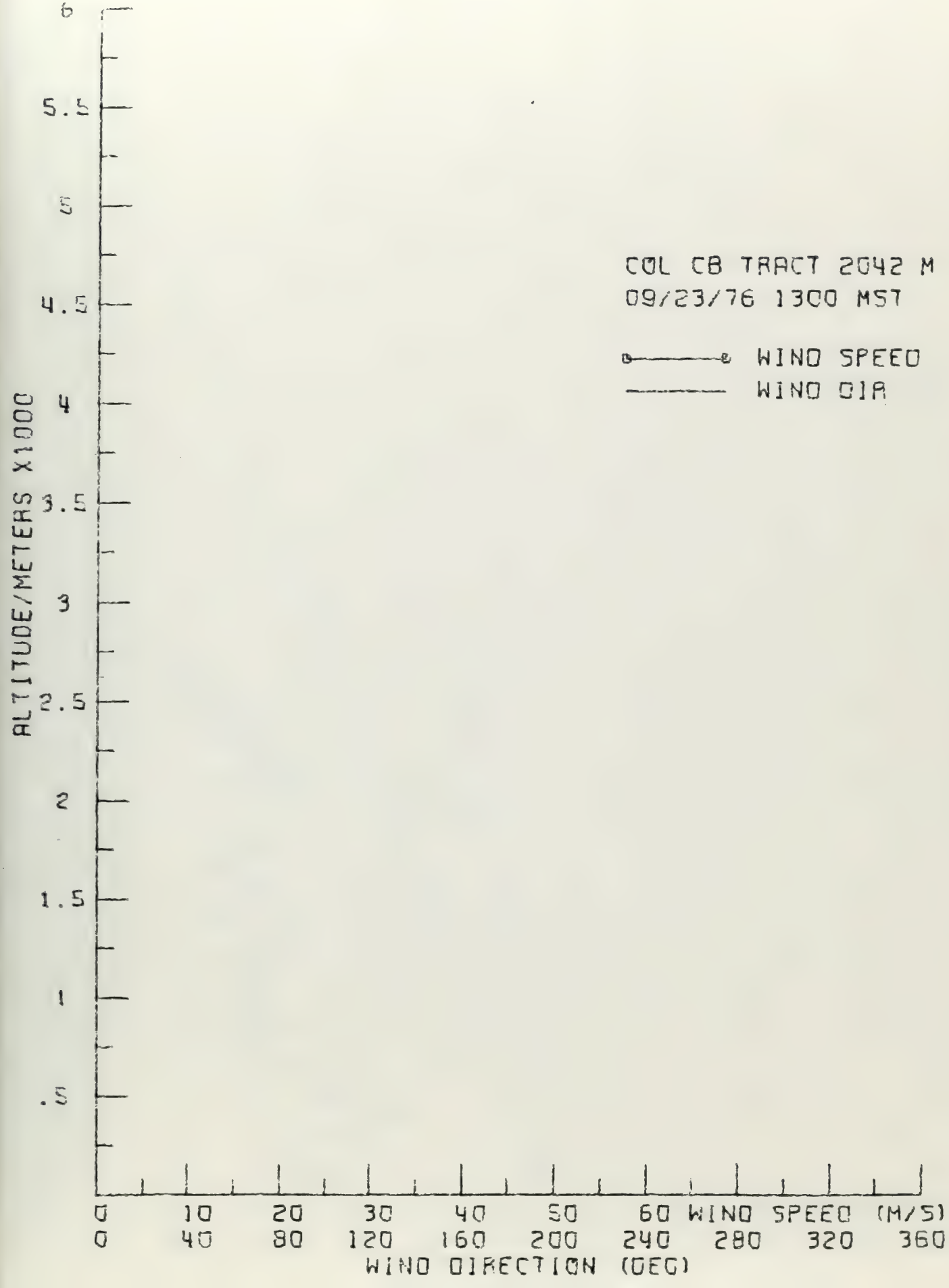
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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09/23/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
5
4.5
4
3.5
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2.5
2
1.5
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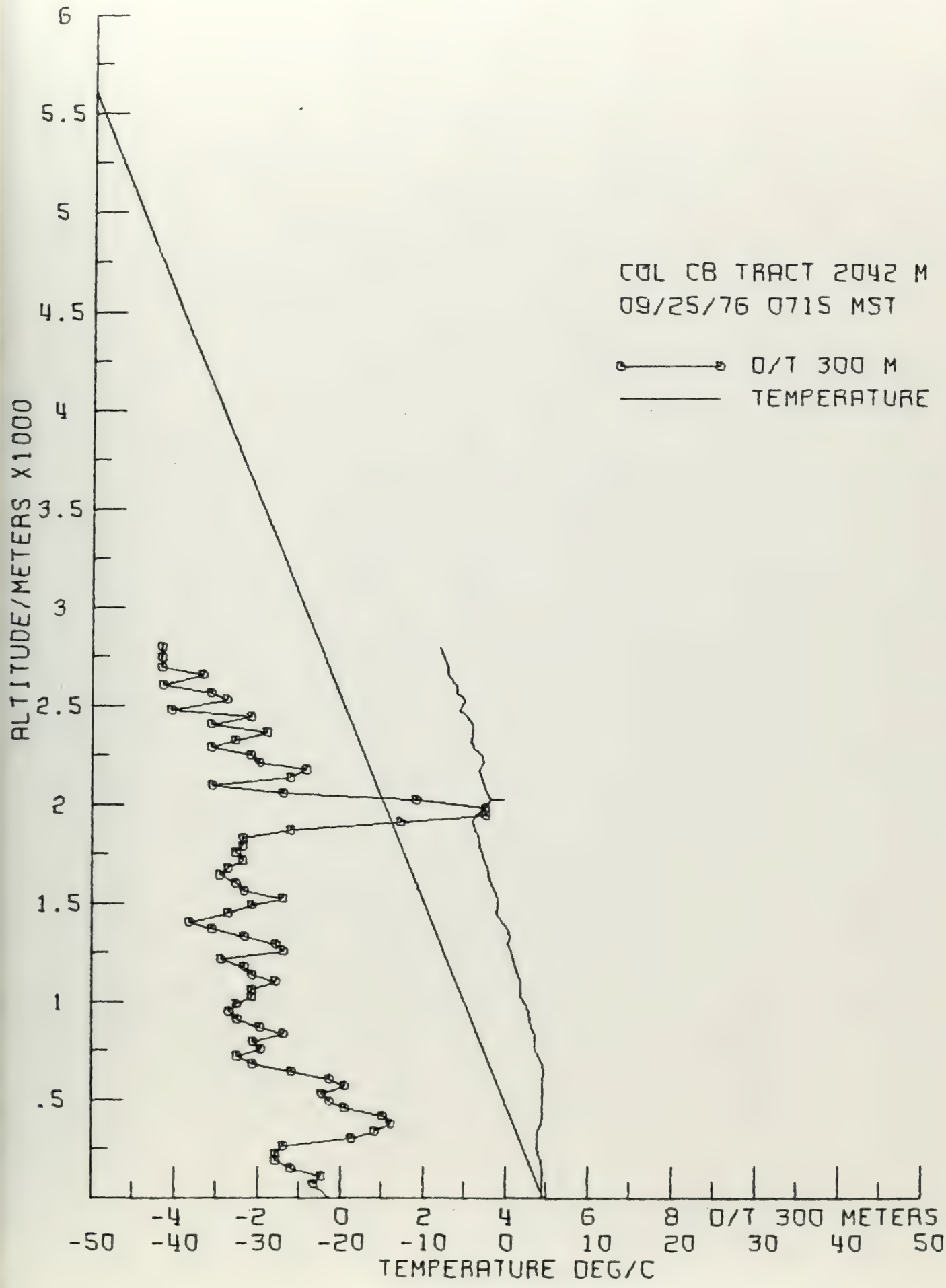
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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09/25/76 0715 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
3
2.5
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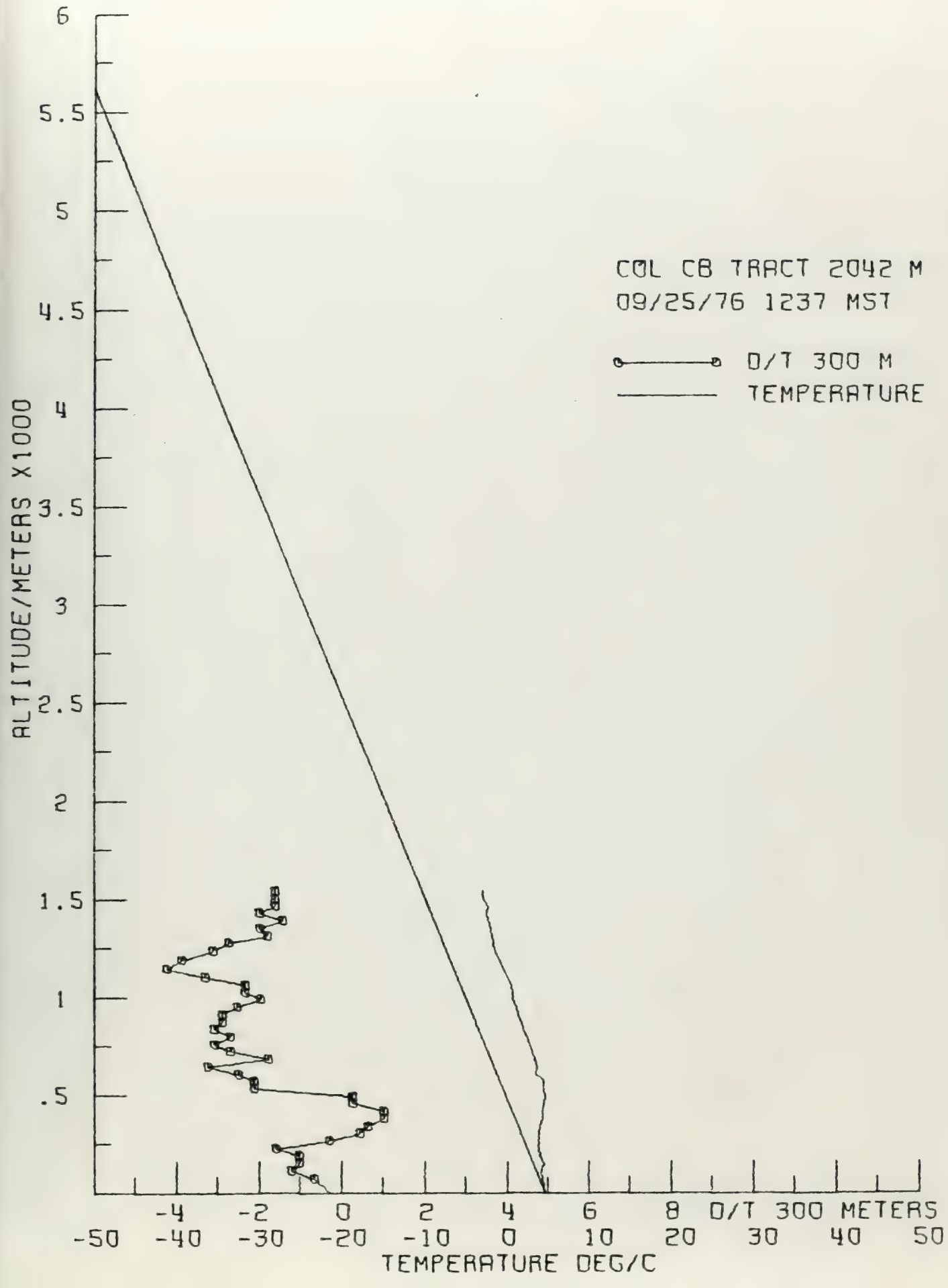
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C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09/25/76 1237 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
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-30
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-10
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10
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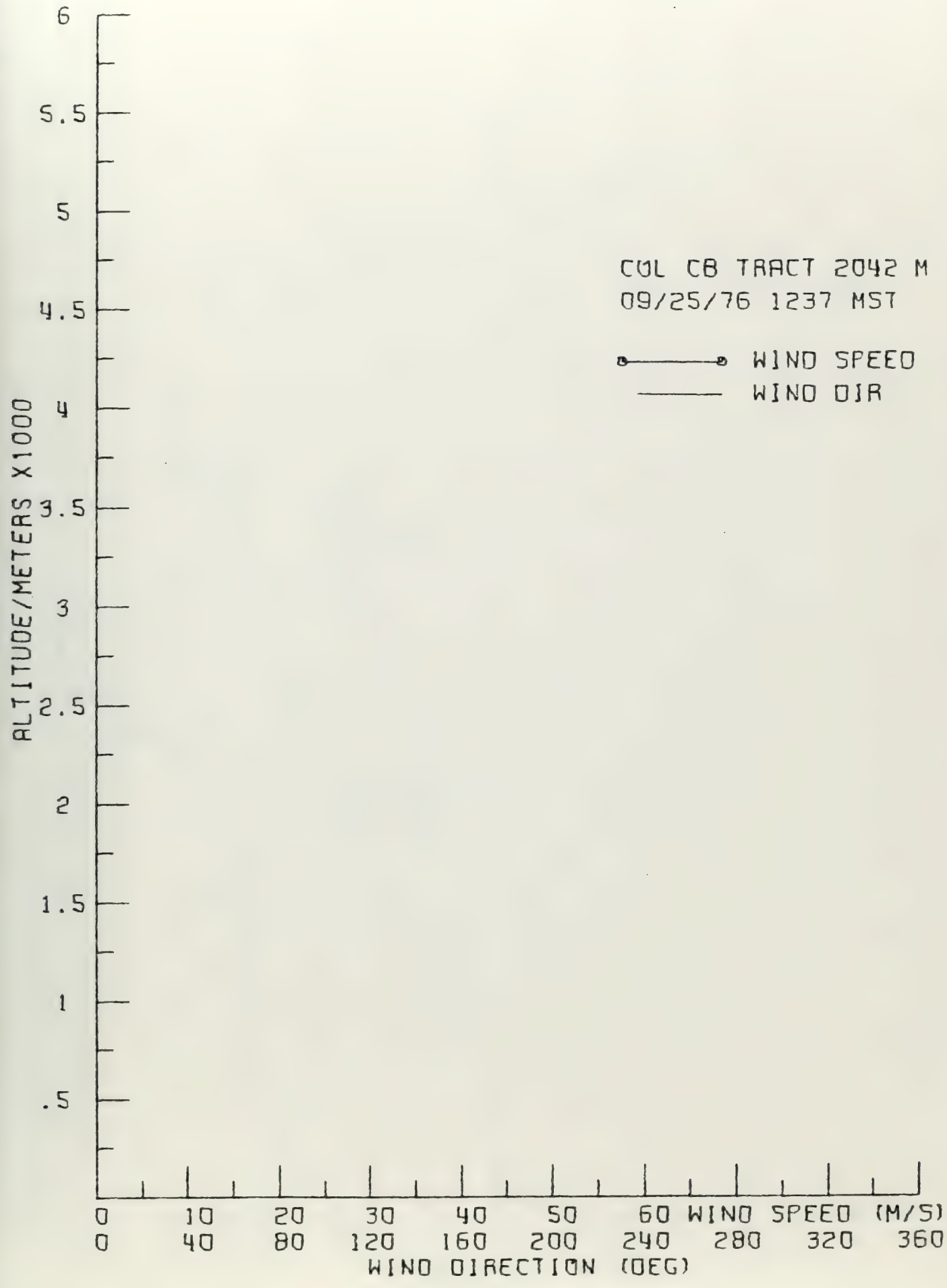
40
50
TEMPERATURE DEG/C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09/25/76 1237 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4
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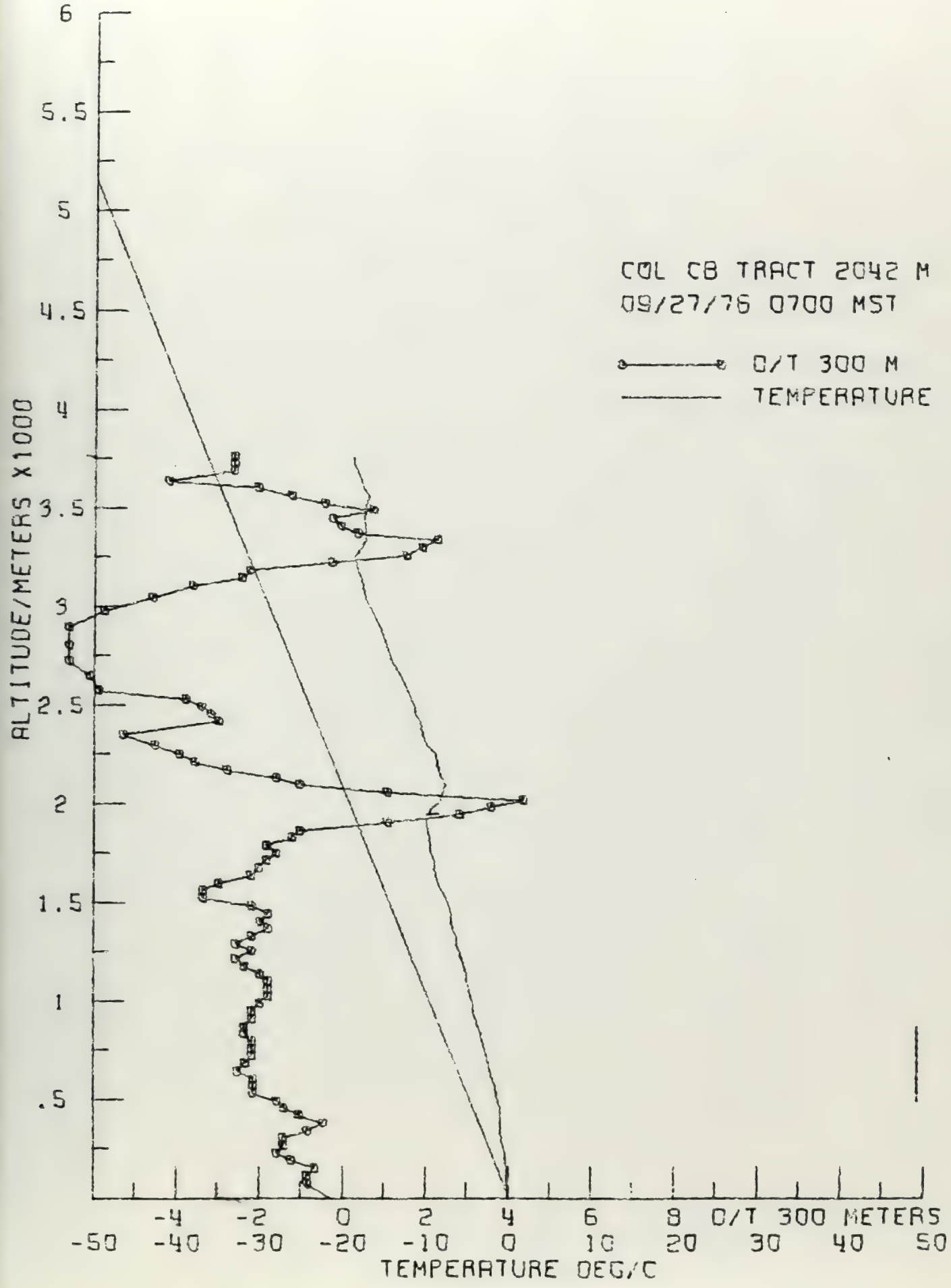
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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09/27/76 0700 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
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D/T 300 METERS
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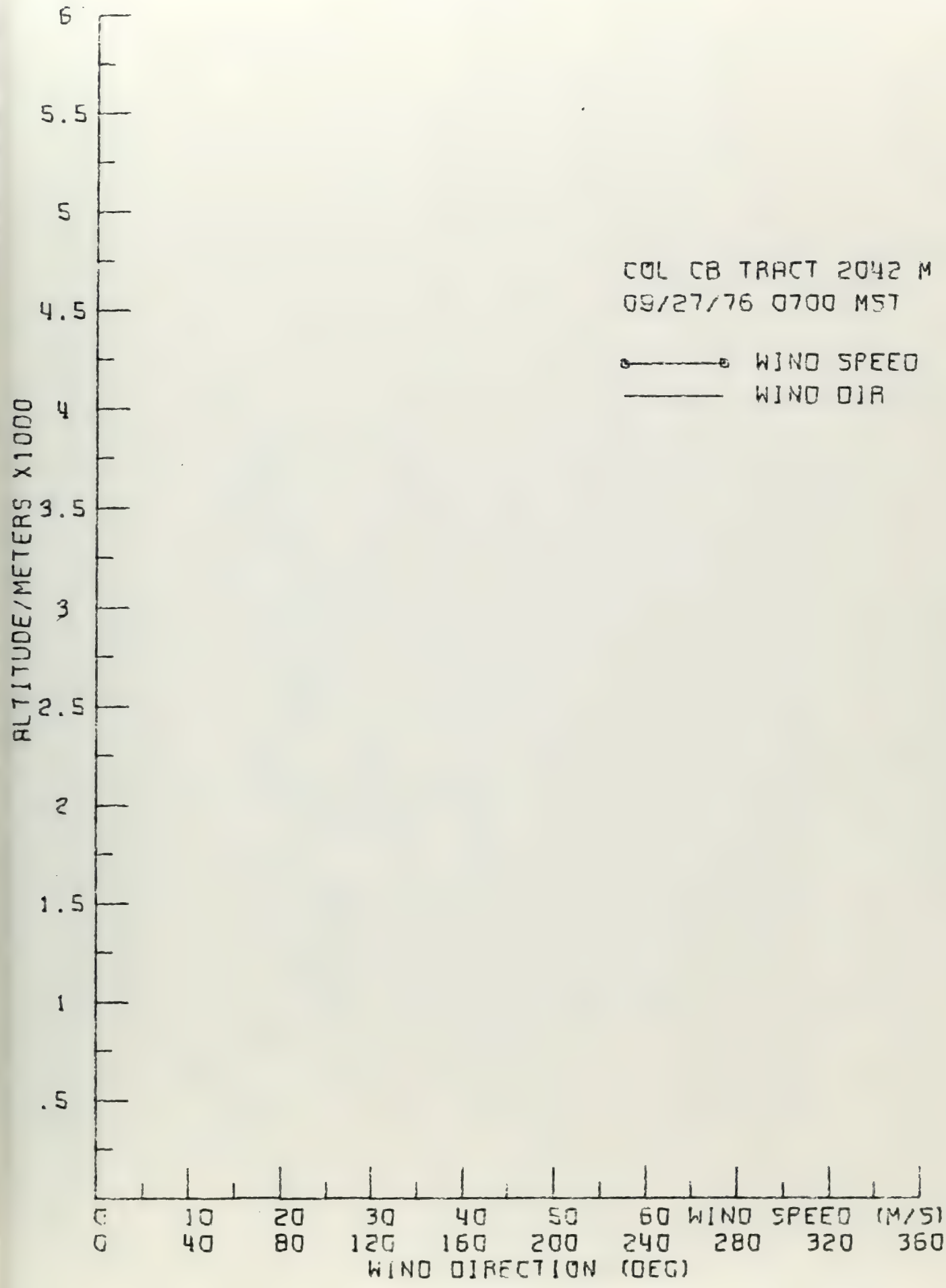
TEMPERATURE DEG/C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09/27/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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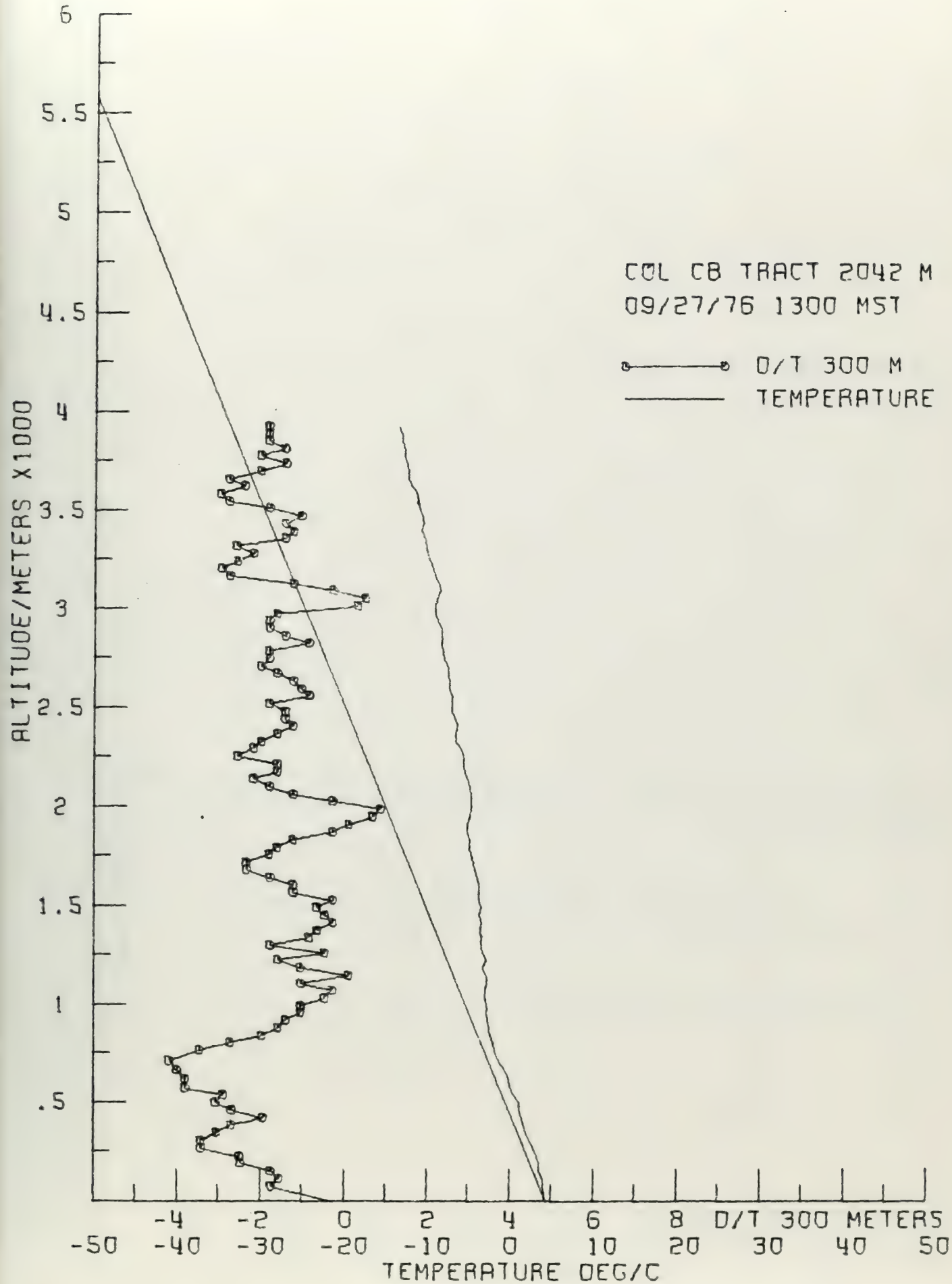
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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09/27/76 1300 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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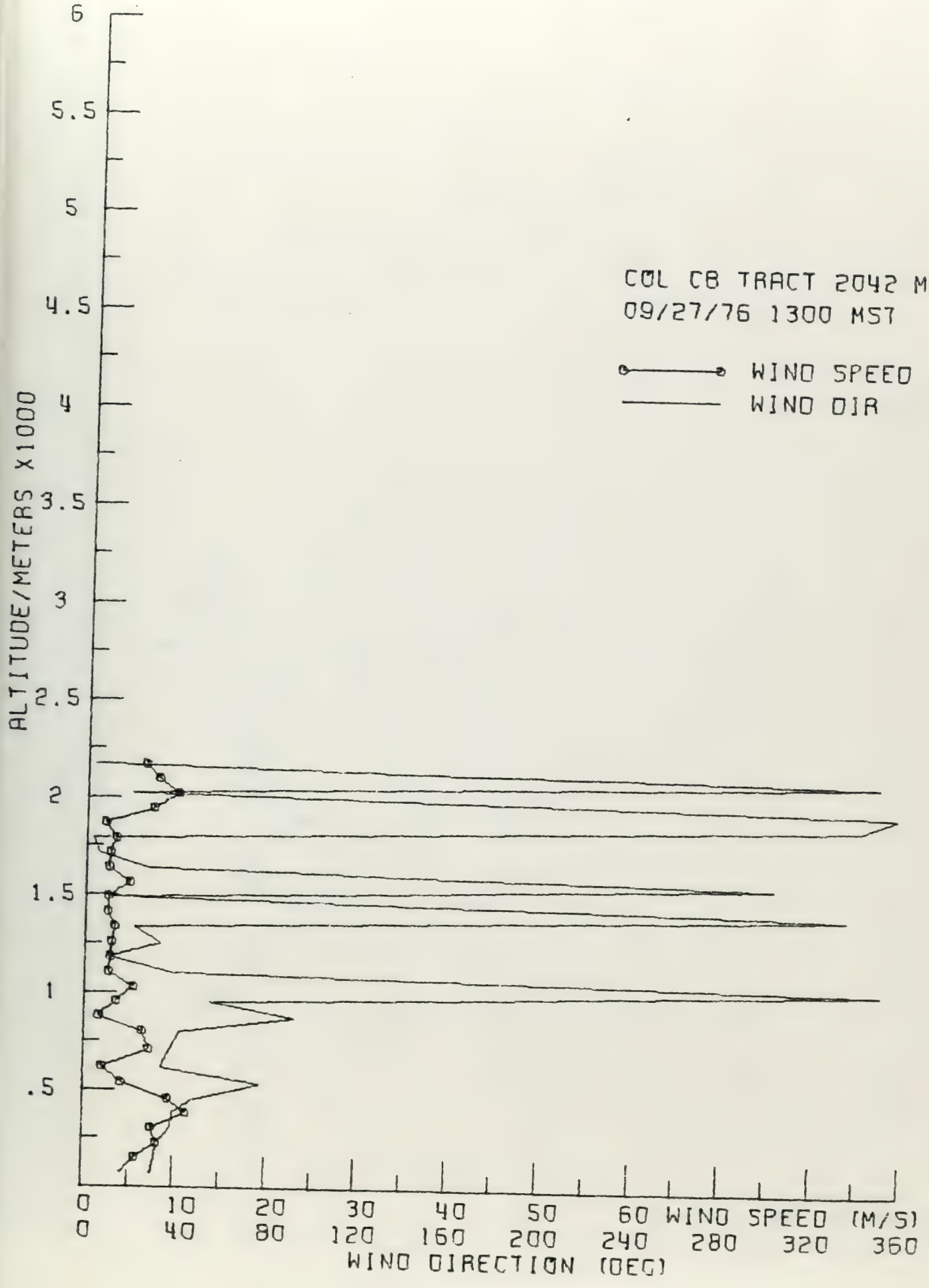
TEMPERATURE DEG/C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09/27/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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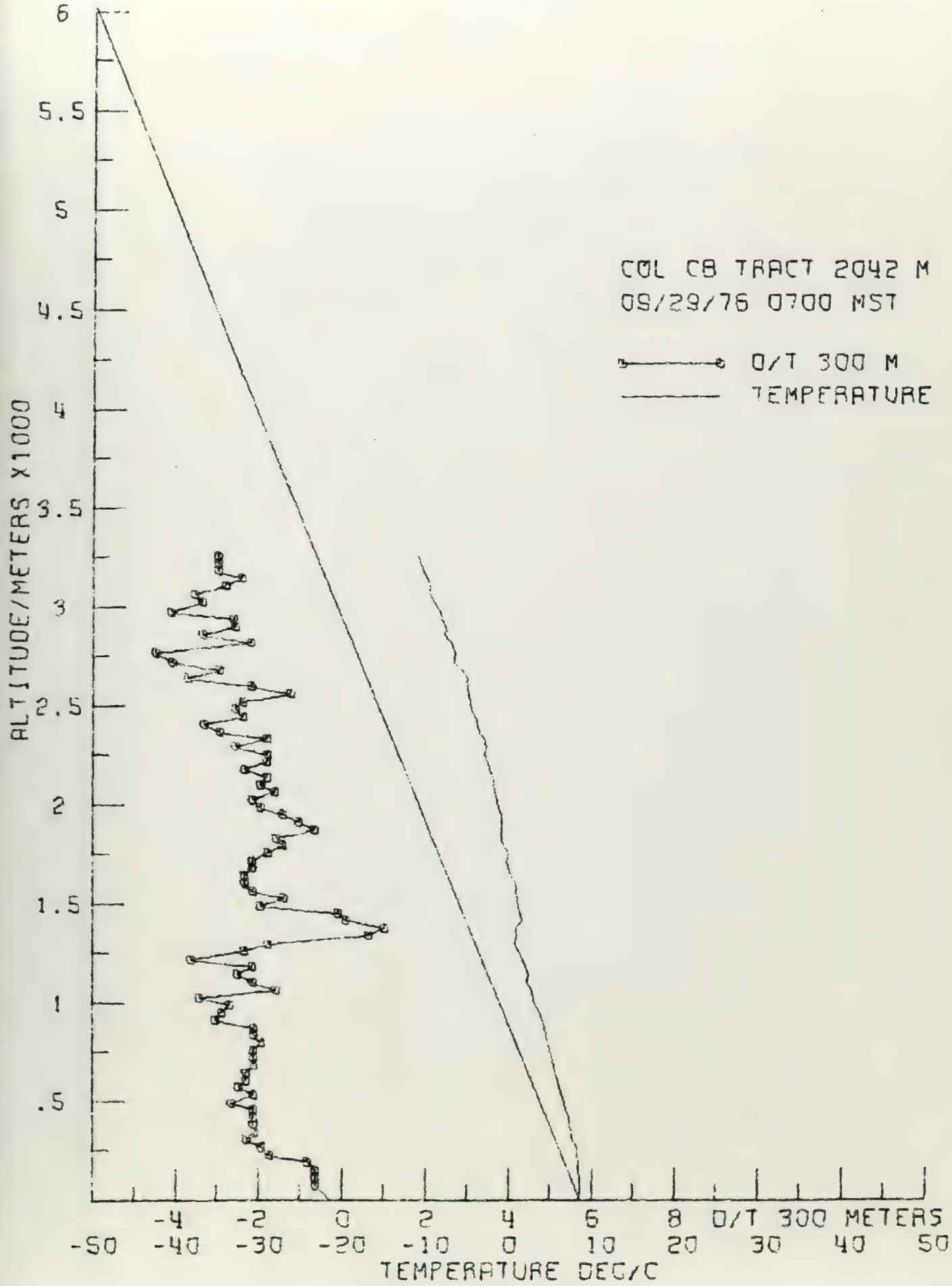
WIND DIRECTION (DEG)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09/29/76 0700 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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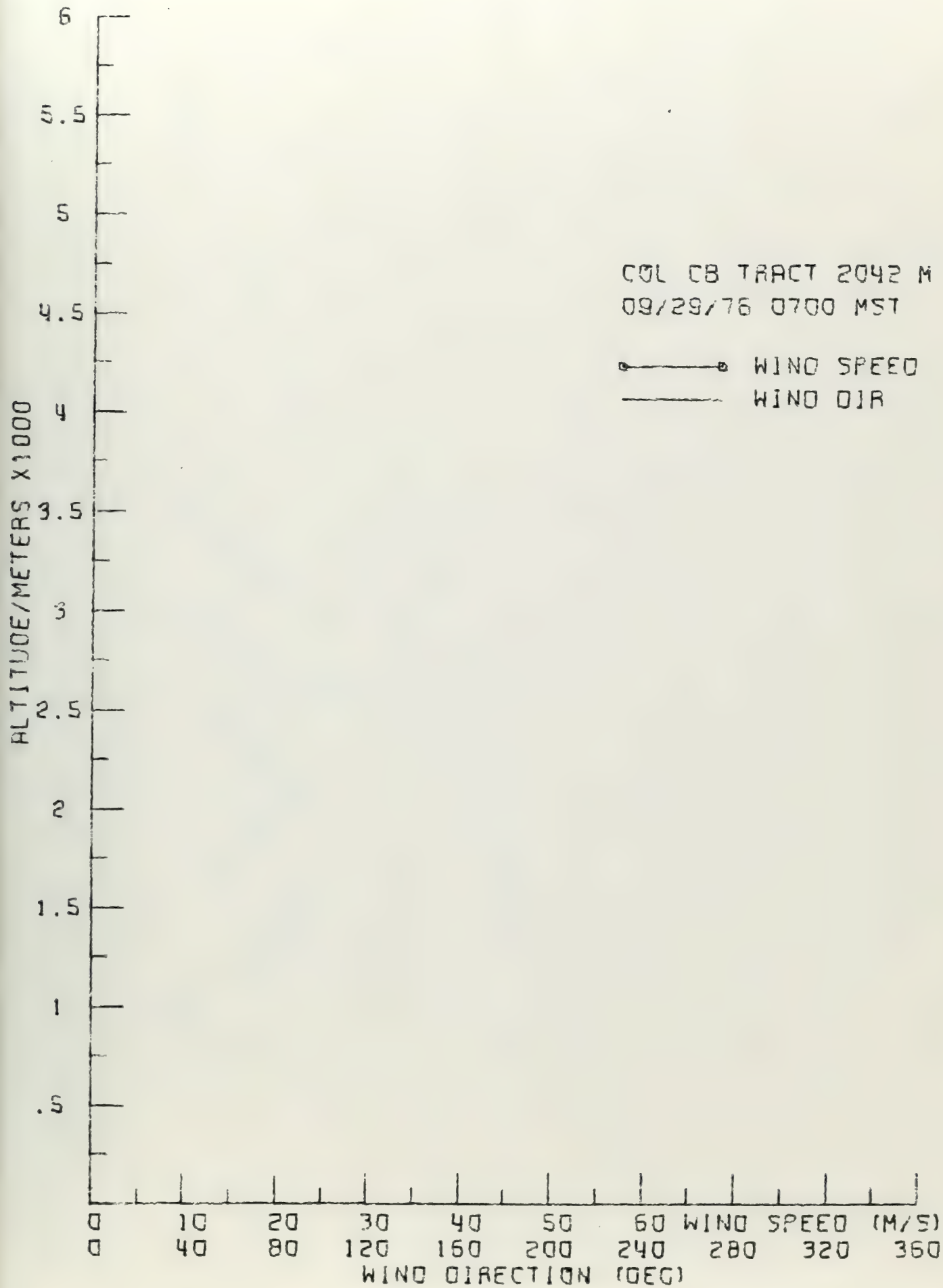
TEMPERATURE DEG/C


COL CB TRACT 2042 M
09/29/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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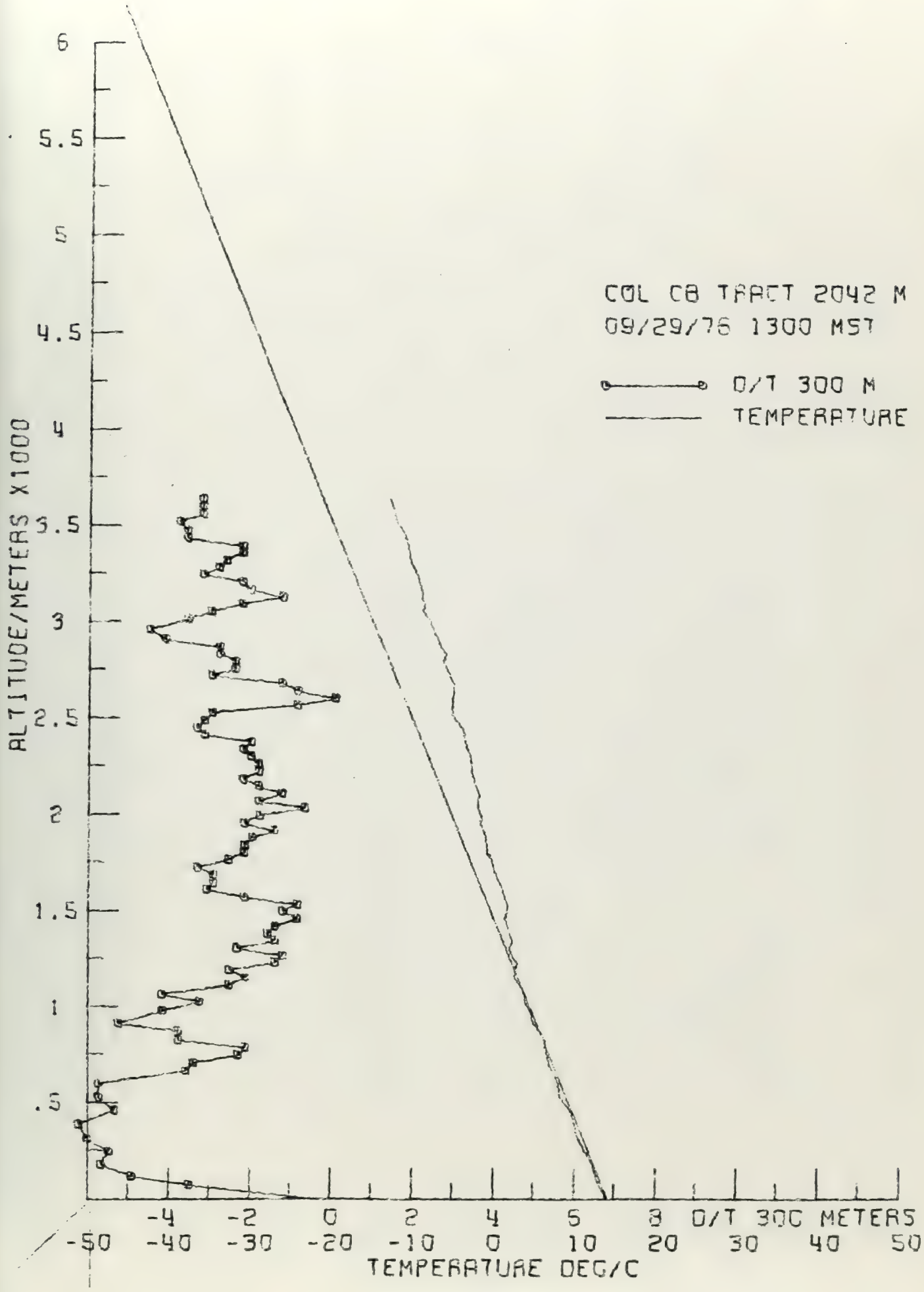
WIND DIRECTION (DEG)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09/29/76 1300 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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8 D/T 300 METERS
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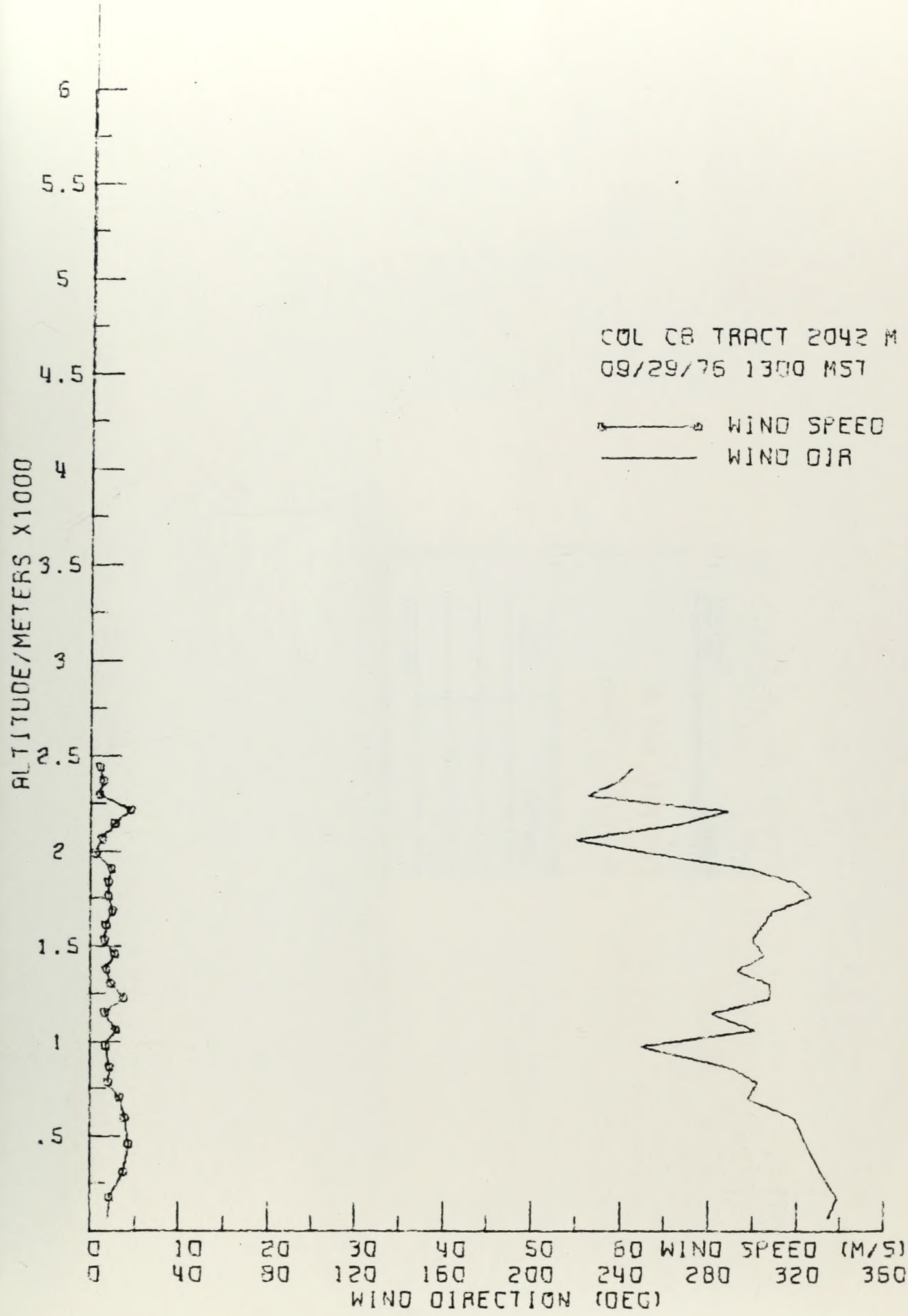
TEMPERATURE DEG/C


COL CB TRACT 2042 M
09/29/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

Form 1279–3
(June 1984) BORROWE

TN 859 .C64 C375

Monthly progress
... for the per

DATE LOANED	BORROWER

USDI – BLM